Complementary technical information

Catalogue 2018
Low Voltage

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- Guidance to mitigate personnel hazards during the dismantling of products and before recycling operations.
- Parts identification for recycling or for selective treatment, to mitigate environmental hazards/ incompatibility with standard recycling processes.

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Coordination for electrical distribution

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Selectivity table

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Using the tables

Two circuit breakers offer total selectivity when the corresponding box in the discrimination table is shaded or contains the letter T.
When selectivity is partial for the combination, the corresponding box indicates the maximum value of the fault current for which selectivity is provided. For fault currents above this value, the two circuit breakers trip simultaneously.

Coordination between circuit breakers
Selectivity (Discrimination)

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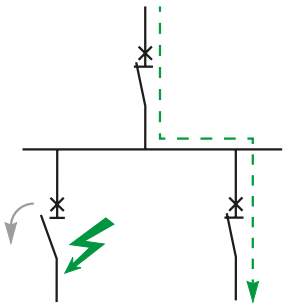
Selectivity of over-current protection is covered by circuit breakers standards: IEC 60947-2 Annex A and IEC 60898-1 Annex D.
Selectivity of residual current protection is covered by IEC 60364 series and product standards IEC 60947-2 Annex B and M, IEC 61009-1.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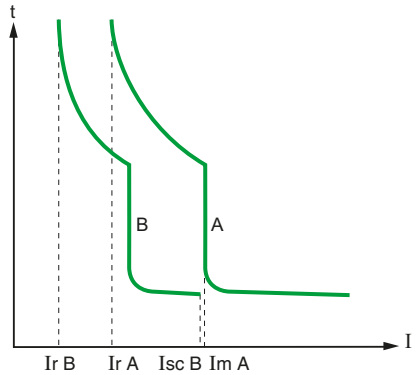
Selectivity is essential to ensure continuity of supply and fast fault localization.



FigH50.eps

Total discrimination between CBs A and B.

Discrimination

Principles of Selectivity (Discrimination)

Selectivity is achieved by overcurrent and earth fault protective devices if a fault condition, occurring at any point in the installation, is cleared by the protective device located immediately upstream of the fault, while all other protective devices remain unaffected.

Selectivity is required for installation supplying critical loads where one fault on one circuit shall not cause the interruption of the supply of other circuits. In IEC 60364 series it is mandatory for installation supplying safety services. (IEC60364-5-56 2009 560.7.4). Selectivity may also be required by some local regulation or for some special application like :
- Medical location
- Marine
- High-rise building

Selectivity is highly recommended where continuity of supply is critical due to the nature of the loads.
- Data center
- Infrastructure (tunnel, airport…)
- Critical process

From installation point of view: Selectivity is achieved when the maximum short-circuit current at a point of installation is below selectivity limit of the circuit breakers supplying this point of installation.Selectivity shall be checked for all circuits supplied by one source and for all type of fault:
- Overload
- Short-circuit
- Earth fault

When system can be supplied by different sources (Grid or generator set for instance) selectivity shall be checked in both cases.

Selectivity between two circuit breakers may be
- Total : up to the breaking capacity of the downstream circuit breaker
- Partial : up to a specified value according to circuit breakers characteristics

Different solution are provided to achieve selectivity based on:
- Current
- Time
- Energy
- Logic

Current based selectivity:

This method is realized by setting successive tripping thresholds at stepped levels, from downstream circuits (lower settings) towards the source (higher settings). Selectivity is total or partial, depending on particular conditions, as noted above.

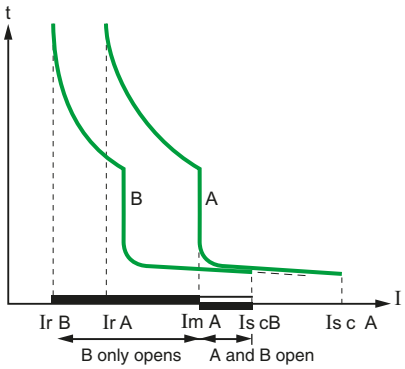
Time based selectivity

This method is implemented by adjusting the time-delayed tripping units, such that downstream relays have the shortest operating times, with progressively longer delays towards the source.In the two-level arrangement shown, upstream circuit breaker A is delayedsufficiently to ensure total selectivity with B (for example: Masterpact with electronic trip unit).

Selectivity category B circuit breakers are designed for time based selectivity, the selectivity limit will be the upstream short time withstand value (Icw)

Coordination between circuit breakers
Selectivity (Discrimination)

Fig451.eps



Partial discrimination between CBs A and B

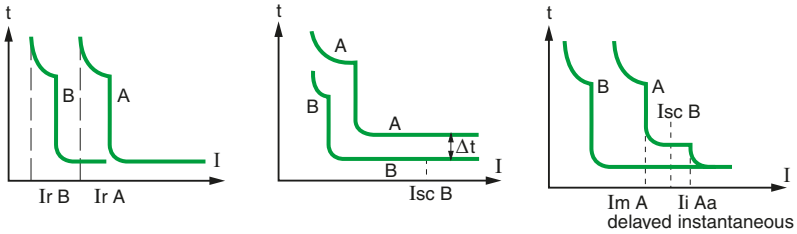
Selectivity based on a combination of the two previous methods

A time-delay added to a current level scheme can improve the overall selectivity performance.

The upstream CB has two magnetic tripping thresholds:

- Im A: delayed magnetic trip or short-delay electronic trip
- Ii: instantaneous trip

Selectivity is total if Isc B <Ii (instantaneous).



Current based selectivity, Time based selectivity, Combination of both

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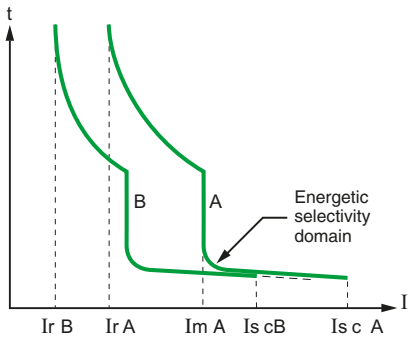

Energetic based selectivity.

Protection against high level short-circuit currents: Selectivity based on arc-energy levels

Where time versus current curves are superposed selectivity is possible with limiter circuit breaker when they are properly coordinated.

Principle: When a very high level short-circuit current is detected by the two circuit breakers A and B, their contacts open simultaneously. As a result, the current is highly limited.

- The very high arc-energy at level B induces the tripping of circuit breaker B
- Then, the arc-energy is limited at level A and is not sufficient to induce the trippingof A

This approach requires an accurate coordination of limitation levels and tripping energy levels. It's implemented inside the Compact NSX range (current limiting circuit breaker), and between compact NSX and acti 9 range. This solution is the only one to achieve selectivity up to high short-circuit current with selectivity category A circuit breaker according to IEC60947-2

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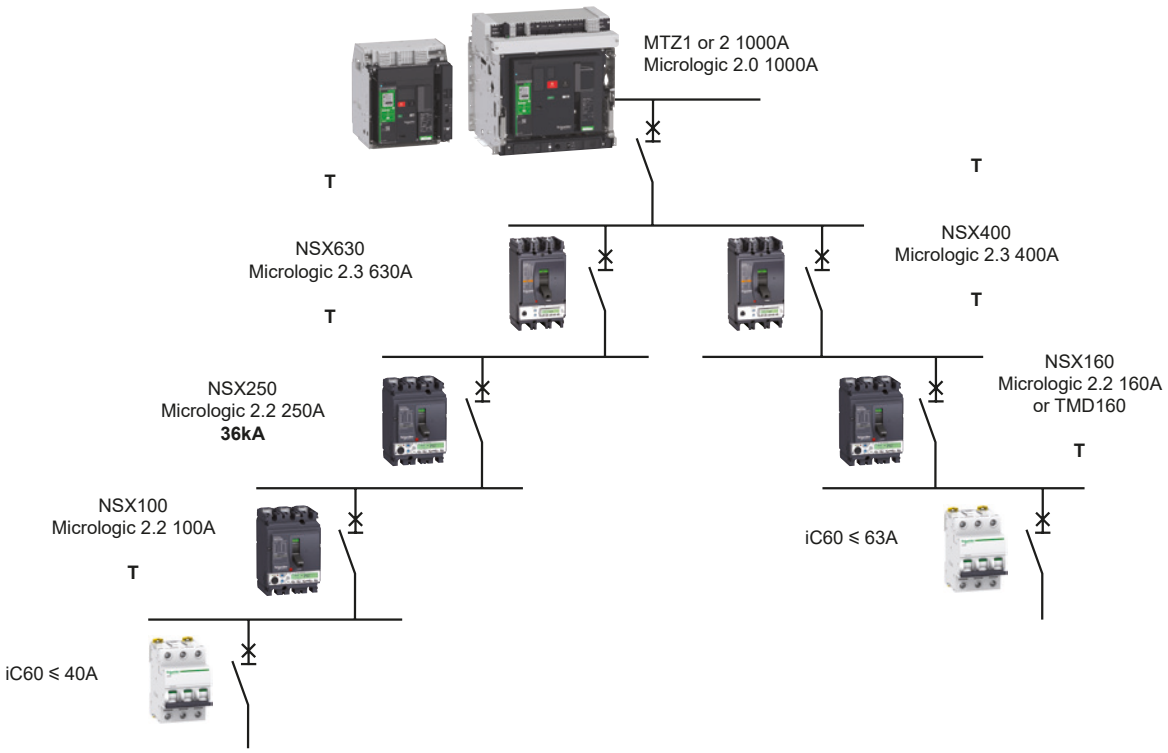


Practical example of selectivity at several levels with Schneider Electric circuit breakers (with electronic trip units)

Coordination between circuit breakers

Selectivity (Discrimination)

Selectivity enhanced by cascading

Cascading between 2 devices is normally achieved by using the tripping of the upstream circuit breaker A to help the downstream circuit breaker B to break the current. The selectivity limit Is is consequently equal to the ultimate breaking current Icu B of circuit breaker B acting alone, as cascading requires the tripping of both devices.
The energy selectivity technology implemented in Compact NSX circuit breakers allows to improve the selectivity limit to a value higher than the ultimate breaking current Icu B of the downstream circuit breaker. The principle is as follows:
■ The downstream limiting circuit breaker B sees a very high short-circuit current. The tripping is very fast (<1 ms) and then, the current is limited
■ The upstream circuit breaker A sees a limited short-circuit current compared to its breaking capability, but this current induces a repulsion of the contacts. As a result, the arcing voltage increases the current limitation. However, the arc energy is not high enough to induce the tripping of the circuit breaker. So, the circuit breaker A helps the circuit breaker B to trip, without tripping itself. The selectivity limit can be higher than Icu B and the selectivity becomes total with a reduced cost of the devices

Logic selectivity or “Zone Sequence Interlocking – ZSI”

This type of selectivity can be achieved with circuit breakers equipped withspecially designed electronic trip units (Compact, Masterpact): only the Short Time Protection (Isd, Tsd) and Ground Fault Protection (GFP) functions of the controlleddevices are managed by Logic Selectivity. In particular, the InstantaneousProtection function is not concerned.
One benefit of this solution is to have a short tripping time wherever is located the fault with selectivity category B circuit breaker. Time based selectivity on multi level system implies long tripping time at the origin of the installation.

Selectivity schemes based on logic techniques are possible, using CBs equipped with electronic tripping units designed for the purpose (Compact, Masterpact) and interconnected with pilot wires

Settings of controlled circuit breakers

■ time delay: Staging of the time delays is necessary at least forcircuit breaker receving a ZSI Input (ΔtD1>trip time with no delay of D2 and ΔtD2>trip time with no delay of D3)
■ thresholds: there are no threshold rules to be applied, but natural staging of theprotection device ratings must be complied with (IcrD1 > IcrD2 > IcrD3).
Note: This technique ensures selectivity even with circuit breakers of similarratings.

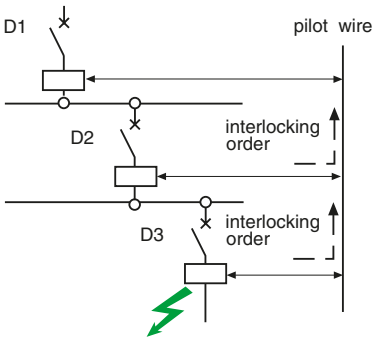
Principles

Activation of the Logic Selectivity function is via transmission of information onthe pilot wire:
■ ZSI input:
□ low level (no downstream faults): the Protection function is on standby with no time delay,
□ high level (presence of downstream faults): the relevant Protection function moves to the time delay status set on the device.
■ ZSI output:
□ low level: the trip unit detects no faults and sends no orders,
□ high level: the trip unit detects a fault and sends an order.

Operation

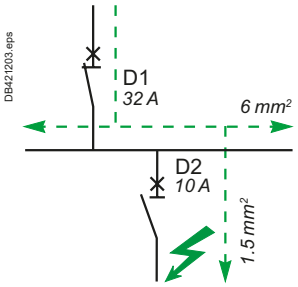
A pilot wire connects in cascading form the protection devices of an installation(see Fig. H56). When a fault occurs, each circuit breaker upstream of the fault(detecting a fault) sends an order (high level output) and moves the upstream circuit breaker to its set time delay (high level input). The circuit breaker placed justabove the fault does not receive any orders (low level input) and thus trips almostinstantaneously.

FigH56.ai



Logic selectivity

Coordination between circuit breakers
Selectivity (Discrimination)



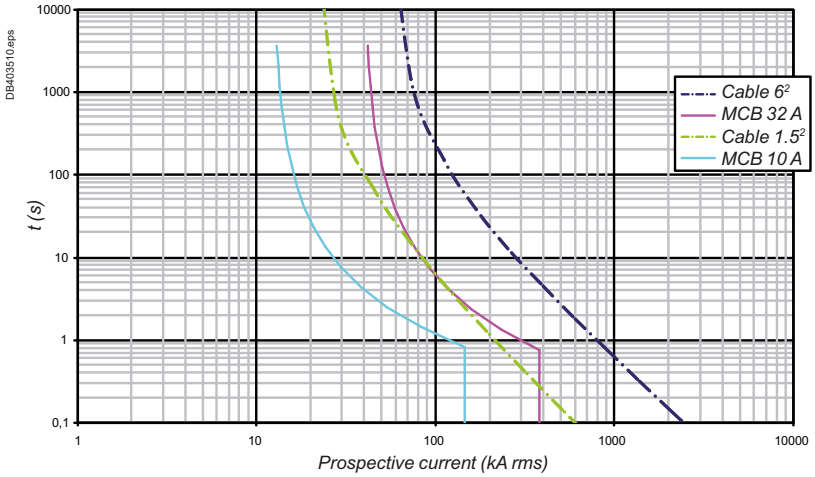
Selectivity between modular circuit breakers

We use two types of selectivity when these circuit breakers are combined:
- current selectivity,
- energy selectivity.

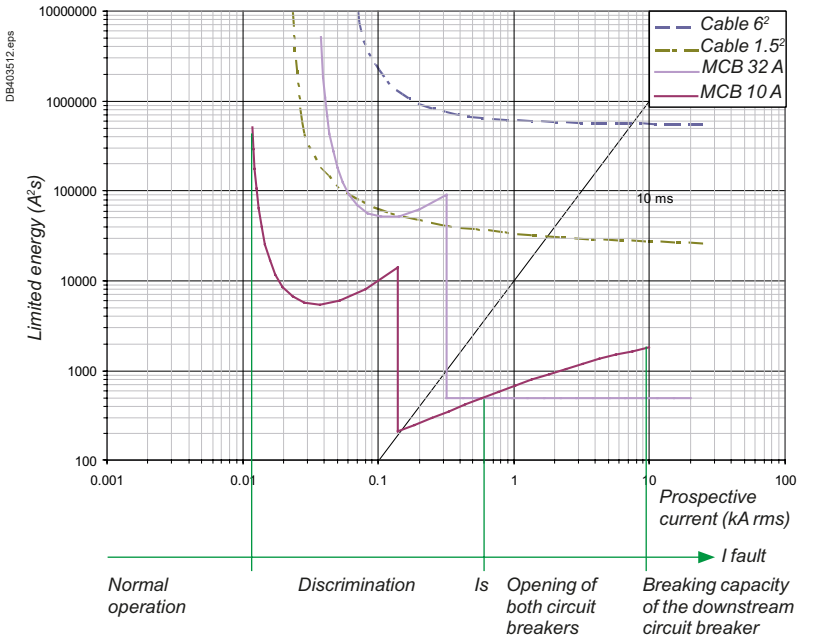
For selectivity to be ensured whatever the prospective fault current, 3 conditions have to be fulfilled:
- the upstream and downstream circuit breakers must have different ratings (ratio > 1.3),
- their type of curve (B,C,D ...) shall be consistent to ensure D1 magnetic level > D2 magnetic level,
- the energy allowed to pass through the downstream circuit breaker when it cuts off must still be less than the operating energy of the upstream trip.

Example

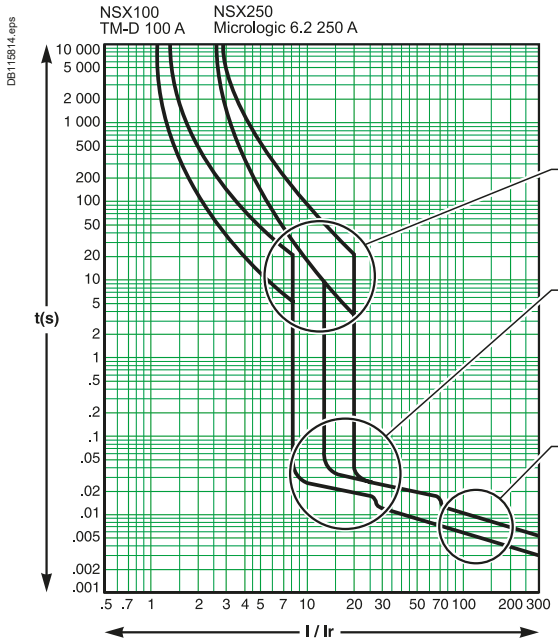
- Let us take the example of a single phase network where we have a 32 A curve D circuit breaker in series with a 10 A curve D circuit breaker:
  - the 32 A circuit breaker protects the 6^2 cables and the 10 A circuit breaker protects the 1.5^2 cables. This combination allows selectivity, but up to what threshold?
  - if current selectivity is considered (t = f (Ip)) it can be seen that the tripping curve of the downstream circuit breaker is well below the non-tripping curve of the upstream circuit breaker,
  - furthermore, each circuit breaker is well below the maximum stress permitted by the cables.



When considering energy selectivity, it is necessary to compare the maximum stresses characterized by the integrals I^2t relative to the development of the arc in the downstream device and by the sensitivity of the trip unit, still in I^2t, of the upstream device (curves $I^2t = f(Ip)$).



Coordination between circuit breakers
Selectivity (Discrimination)



Selectivity between Compact NSX upstream and modular circuit breakers downstream

Compact NSX circuit breakers have been designed to ensure total selectivity with Acti9 range.

- Total selectivity between Compact NSX 100 A with electronic trip unit and Acti9 circuit breaker up to 40 A.
- Total selectivity between Compact NSX ⩾ 160 A with TMD trip unit ⩾125 A or electronic trip unit and Acti9 up to 63 A.

Selectivity between Compact NSX circuit breakers

Thanks to the Roto-Active breaking principle in the Compact NSX, a combination of Schneider Electric circuit breakers provides an exceptional level of selectivity between protection devices.
This performance is due to the combination and optimization of 3 principles:

- current selectivity,
- energy selectivity,
- time selectivity.

Protection against overloads: current selectivity
The protection is selective if the ratio between the setting thresholds is higher than 1.6 (in the case of two distribution circuit breakers).

Protection against weak short circuits: time selectivity
Tripping of the upstream device has a slight time delay; tripping of the downstream device is faster.
The protection is selective if the ratio between the short-circuit protection thresholds is no less than 1.5.

Protection against high short circuits: energy selectivity
This principle combines the exceptional limiting power of the Compact NSX devices and reflex release, sensitive to the energy dissipated by the short circuit in the device.
When a short circuit is high, if it is seen by two devices, the downstream device limits it greatly. The energy dissipated in the upstream device is insufficient to cause it to trip: there is selectivity whatever the value of the short circuit.
The range has been designed to ensure energy selectivity between NSX630/NSX250/NSX100 or NSX400/NSX160.

Selectivity between Masterpact or Compact NS ⩾ 630 A upstream and Compact NSX downstream

Thanks to their high-performance control units and a very innovative design, Masterpact and Compact NS ⩾ 630 A devices offer, as standard, a very high level of selectivity with downstream Compact NSX up to 630 A
Respect the basic rules of selectivity for overload and short-circuit, or check that curves do not overlap with Ecodial software.
Check the selectivity limit in tables for high short-circuit current or when using limiter circuit breakers (Masterpact MTZ1 L1 or Compact NS L or LB) upstream.

Selectivity between Masterpact or Compact NS ⩾ 630 A upstream and downstream

The utilization category of these devices (excepted limiters ones) is B according to IEC 60947 standard. Selectivity is ensured by a combination of current selectivity and time selectivity.
Respect the basic rules of selectivity for overload and short-circuit, or check that curves do not overlap with Ecodial software.
Check the selectivity limit in tables for high short-circuit current or when using limiter circuit breakers (Masterpact MTZ1 L1 or Compact NS L or LB).

Basic rules of selectivity for overload and short-circuit

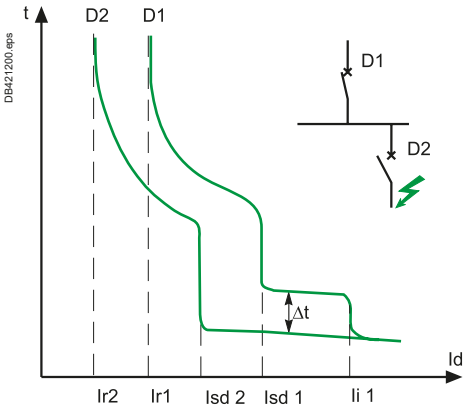
Upstream	Downstream	Thermal protection	Magnetic protection
		Ir upstream / Ir downstream	Im upstream / Im downstream
TM	TM or MCB	⩾ 1.6	⩾ 2
	Micrologic	⩾ 1.6	⩾ 1.5
Micrologic	TM or MCB	⩾ 1.6	⩾ 1.5
	Micrologic	⩾ 1.3	⩾ 1.5 [1]

[1] See "Additional conditions according to the trip units".

Coordination between circuit breakers
Selectivity (Discrimination)

Masterpact MTZ with Micrologic X control unit offer two options for instantaneous trip: "Standard" and "fast". Selectivity tables are provided with "Standard" setting.

See Micrologic X User guide for setting guidelines.



Additional conditions according to the trip units

Short time trip pickup current (Isd)
The tables show the limit of selectivity assuming the short time trip pickup current Isd = 10 x Ir.
In many cases, when selectivity is total, a different adjustment may be used provided that the ratio between the magnetic thresholds indicated above is observed.
When downstream breaker is a Compact NSX:
■ upstream circuit breaker magnetic setting shall be higher than downstream instantenous protection:

NSX 2.2 ou 2.3	Mic 2.2 40	Mic 2.2 100	Mic 2.2 160	Mic 2.2 250	Mic 2.3 400	Mic 2.3 630
Inst.	600 A	1500 A	2400 A	3000 A	4800 A	6900 A

■ or upstream circuit breaker shall be equipped with micrologic type 5 with tsd ≥ 0.1.
When downstream circuit breaker is a Masterpact with micrologic 2, upstream circuit breaker shall be equipped with micrologic type 5 and tsd ≥ 0,1 and Ii Off.
When the limit of selectivity indicated in the table is 10 x Ir, the limit of selectivity is in fact the upstream magnetic threshold Isd.

Instantaneous trip pickup current (Ii)
The tables show the limit of selectivity assuming the instantaneous trip pickup current set to its maximum value and when it is inhibited (category B circuit breaker only).
■ When the limit of selectivity indicated in the table is 15 x In of the upstream device, the limit of selectivity is in fact the instantaneous trip pickup current of the upstream device.
■ When the upstream device is a type B circuit breaker and the downstream device is type A, the instantaneous trip pickup current of the upstream device may be set to below 15 x In as long as it remains higher than the reflex release threshold of the downstream device.

Short time tripping delay (Tsd)
When the upstream and downstream circuit breakers are fitted with a Micrologic 5.x, 6.x, 7.x: trip unit, the minimum non-tripping time of the upstream device must be greater than the maximum tripping time of the downstream device.

Tsd D1 > Tsd D2 (One band)

I^2t Off / On

The tables show the limit of selectivity assuming function I^2t OFF. If this is not the case, the user must verify that the curves do not overlap.

Ground Fault Protection (GFP) (Ig, Tg)
When the upstream and downstream circuit breakers are fitted with a Micrologic 6.x trip unit, the user must verify current and time selectivity:

current selectivity

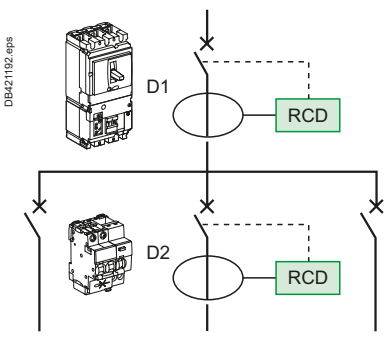
The setting of the tripping threshold of the upstream GFP is greater than that of the downstream GFP. Because of the tolerances on the settings, a difference of 30 % between the upstream threshold and the downstream threshold is sufficient.

time selectivity

The intentional time-delay setting for the upstream GFP is higher than the opening time of the downstream protection device. Furthermore, it is essential that the intentional time-delay applied to the upstream protection device observes the maximum insulation fault elimination time defined by NEC § 230.95 (i.e. 1 s for 3000 A).

Ig D1 ≥ 1.3 Ig D2 Tg D1 > Tg D2 (One band)

Circuit breaker with vigi module (Add-On Residual Current Device - RCD):
When circuit breakers are equipped with vigi module, selectivity tables are valid for short-circuit. To ensure selectivity in case of earth fault, upstream and downstream vigi modules shall satisfy the following conditions:
■ the sensitivity of the upstream residual current device must be at least equal to three times the sensitivity of the downstream residual current device (IΔn D1 ≥ 3 x IΔn D2),
■ the upstream residual current device must be:
□ of the selective (S) type (or setting) if the downstream residual current device is an instantaneous type,
□ of the delayed (R) type (or setting) if the downstream residual current device is a selective type.
The minimum non-tripping time of the upstream device will therefore be greater than the maximum tripping time of the downstream device for all current values (Δt (D1) > Δt (D2)).



Coordination between circuit breakers

Selectivity of modular circuit breakers

Using the selectivity tables

Depending on the network and the type of downstream circuit breaker, the selection table below indicates which table should be consulted to find out the selectivity value.
The selectivity values are given in colour-coded tables.
■ For 220-240 V/380-415 V 50/60 Hz systems:
□ in the case of a 2P downstream circuit breaker in a single-phase network (220-240 V), refer to the light green tables,
□ in the case of 1P, 1P+N, 3P, 3P+N, 4P and 2P circuit breakers in a two-phase network (380-415 V), refer to the dark green tables.

Selection table

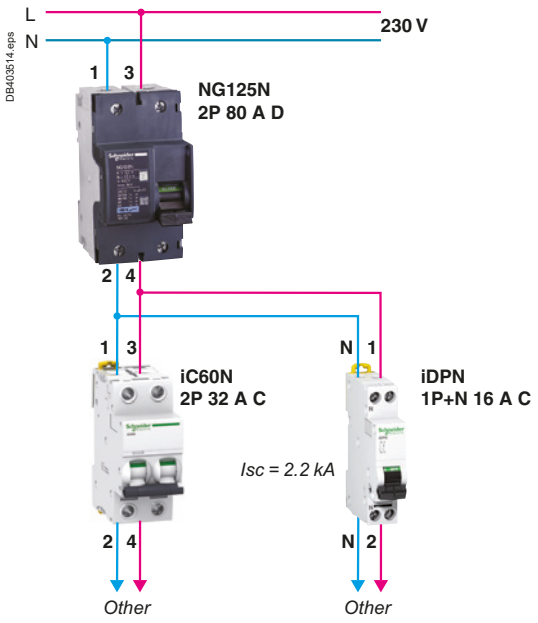
		Upstream network		
		DB123996.eps L1 N	DB123998.eps L1 L2 L3 N	DB123997.eps L1 L2 L3
Type of Downstream network	**Type of Downstream protection device**	**Ph/N 220-240 V**	**Ph/N 220-240 V** **Ph/Ph 380-415 V**	**Ph/Ph 380-415 V**
DB124079.eps N L1	DB123991.eps 2P			
	DB124191.eps 1P / DB123992.eps 1P+N			
DB124192.eps L1 L2	DB123991.eps 2P			
DB124080.eps L1 L2 L3	DB123993.eps 3P			
DB124081.eps N L1 L2 L3	DB123994.eps 4P			
	DB123993.eps 3P / DB123995.eps 3P+N			

Note: this selection table shows you the colour.
By taking your downstream protection device, the type of upstream network and its voltage you can refer to the corresponding selectivity table.

Coordination between circuit breakers

Selectivity of modular circuit breakers

Example: solution diagram



Upstream we have a NG125N 80 A 2P curve D and downstream an iC60N 32 A 2P curve C.
The network is 230 V between phase and neutral.
By referring to the light green table on the selectivity page for NG125N curve D with iC60 downstream, we find 2200 A.

If the downstream product is replaced by an iDPN 1P+N curve C, you will use the dark green table for NG125N curve D and iDPN1P+N downstream.
The selectivity level is 2400 A for a 16 A.

Specifications

We want to achieve continuity of service in the event of a fault downstream of the NG125N 80 A. This circuit has an Isc of 2.2 kA under a voltage of 230 V.
By referring to the table for 230 V, 1P+N network, we find that for an upstream NG125N curve D with a rating of 80 A, we can have total selectivity up to 16 A if we use an iC60N 1P+N and up to 32 A with an iC60N 2P.

Upstream		**NG125N/H/L** Curve D										
In (A)		**10**	**16**	**20**	**25**	**32**	**40**	**50**	**63**	**80**	**100**	**125**
Downstream	**2P (220-240 V) single-phase network**											
Selectivity limit (A)												
iC60N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	T	T	T	T	T	T	T	T	T	T	T
	2	1200	T	T	T	T	T	T	T	T	T	T
	3	21	3400	3400	T	T	T	T	T	T	T	T
	4	18	1200	1300	5800	5600	T	T	T	T	T	T
	6	15	700	720	1900	1900	6000	11000	T	T	T	T
	10		22	480	1200	1200	2200	4200	10000	T	T	T
	13			28	51	900	1800	3000	7300	8000	T	T
	16				35	740	1300	2200	4700	5400	T	T
	20					46	88	1700	3500	3500	6900	T
	25						56	600	2500	2500	4600	6800
	32							80	2000	2200	3400	4400
	40								756	1900	2900	3500
	50									960	2300	2800
	63										2300	2800

4000 Selectivity limit = 4 kA.
T Total selectivity.
No selectivity.

Is > Isc
Total selectivity

Coordination between circuit breakers

Selectivity of modular circuit breakers

Contents

Downstream		Upstream								
Type		iDPN, iDPN N			iC60N/H/L			NG125N/H/L, C120N/H		
	Curve	B	C	D	B	C	D	B	C	D
iDPN	B	page 15	page 16	page 17	page 18	page 19	page 20	page 28	page 30	page 32
	C	page 15	page 16	page 17	page 18	page 19	page 20	page 28	page 30	page 32
	D	page 15	page 16	page 17	page 18	page 19	page 20	page 28	page 30	page 32
iDPN N	B	page 15	page 16	page 17	page 18	page 19	page 20	page 29	page 31	page 33
	C	page 15	page 16	page 17	page 18	page 19	page 20	page 29	page 31	page 33
	D	page 15	page 16	page 17	page 18	page 19	page 20	page 29	page 31	page 33
iC60N/H/L	B	-	-	-	page 22 page 23	page 24 page 25	page 26 page 27	page 34 page 41	page 36 page 37	page 38 page 39
	C	-	-	-	page 22 page 23	page 24 page 25	page 26 page 27	page 34 page 41	page 36 page 37	page 38 page 39
	D	-	-	-	page 22 page 23	page 24 page 25	page 26 page 27	page 34 page 41	page 36 page 37	page 38 page 39
C120, NG125	B	-	-	-	-	-	-	page 40 page 41	page 42 page 43	page 44 page 45
	C	-	-	-	-	-	-	page 40 page 41	page 42 page 43	page 44 page 45
	D	-	-	-	-	-	-	page 40 page 41	page 42 page 43	page 44 page 45

Selectivity between circuit breakers

In the following tables we show the level of selectivity between two LV circuits that are protected by circuit breakers.
This selectivity will be either:

- total: represented by a T (up to the breaking capacity of the downstream device),
- partial: selectivity limit current (Is) indicated. Below this value selectivity is ensured, above this value the upstream device is also involved in breaking,
- zero: no selectivity ensured.

Selectivity table

Upstream: iDPN, iDPN N curve B
Downstream: iDPN/iDPN N curves B, C, D

220-240/380-415 V AC

Upstream		iDPN, iDPN N Curve B										
In (A)		1	2	3	4	6	10	16	20	25	32	40
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN **iDPN N** Curve B	**1**		8	12	20	30	70	150	250	350	610	980
	2			12	16	30	60	110	180	240	340	450
	3					30	40	64	140	190	280	350
	4					10	40	64	120	160	220	280
	6						40	64	80	100	130	160
	10							64	80	100	130	160
	16									100	130	160
	20										130	160
	25											160
Selectivity limit (A)												
iDPN **iDPN N** Curve C	**1**		6	12	20	30	70	150	250	350	610	980
	2				12	30	60	110	180	240	340	450
	3					13	40	64	140	190	280	350
	4						32	64	120	160	220	280
	6							51	80	100	130	160
	10								64	80	130	160
	16										102	128
	20											128
Selectivity limit (A)												
iDPN **iDPN N** Curve D	**1**				12	30	70	150	250	350	610	980
	2					19	60	110	180	240	340	450
	3						32	64	140	190	280	350
	4							51	120	160	220	280
	6								64	80	130	160
	10										102	128
	16											128

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

No selectivity.

Selectivity table

Upstream: iDPN, iDPN N curve C
Downstream: iDPN/iDPN N curves B, C, D

220-240/380-415 V AC

Upstream		iDPN, iDPN N Curve C										
In (A)		1	2	3	4	6	10	16	20	25	32	40
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN **iDPN N** Curve B	**1**		16	24	32	70	180	400	630	1200	T	T
	2			24	32	48	140	270	350	510	820	830
	3				32	48	80	210	290	380	630	650
	4					48	80	130	240	320	480	510
	6						80	130	160	200	320	380
	10							130	160	200	260	320
	16								160	200	260	320
	20										260	320
	25											320
	32											
Selectivity limit (A)												
iDPN **iDPN N** Curve C	**1**		16	24	32	70	180	400	630	1200	T	T
	2			24	32	48	140	270	350	510	820	830
	3				9	48	80	210	290	380	630	650
	4					10	80	130	240	320	480	510
	6						80	130	160	200	320	380
	10							130	160	200	260	320
	16								45	200	260	320
	20										260	320
	25											320
Selectivity limit (A)												
iDPN **iDPN N** Curve D	**1**		16	24	32	70	180	400	630	1200	T	T
	2				25	48	140	270	350	510	820	830
	3					13	80	210	290	380	630	650
	4						80	130	240	320	480	510
	6							128	160	200	320	380
	10								128	200	260	320
	16									141	153	320
	20											256

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

T Total selectivity.

No selectivity.

Selectivity table

Upstream: iDPN, iDPN N curve D
Downstream: iDPN/iDPN N curves B, C, D

220-240/380-415 V AC

Upstream		iDPN, iDPN N Curve D										
In (A)		1	2	3	4	6	10	16	20	25	32	40
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN iDPN N Curve B	**1**		24	36	70	170	380	1200	T	T	T	T
	2			36	48	130	250	490	780	1100	1600	2300
	3				48	72	210	410	640	890	1400	1900
	4					72	120	330	500	670	970	1400
	6						120	190	390	520	740	1000
	10							190	240	300	580	810
	16									300	380	480
	20										380	480
	25											480
	32											480
	40											
Selectivity limit (A)												
iDPN iDPN N Curve C	**1**		24	36	70	170	380	1200	T	T	T	T
	2			36	48	130	250	490	780	1100	1600	2300
	3				9	72	210	410	640	890	1400	1900
	4					10	120	330	500	670	970	1400
	6							190	390	520	740	1000
	10							190	240	300	580	810
	16									300	380	480
	20										380	480
	25											480
Selectivity limit (A)												
iDPN iDPN N Curve D	**1**		24	36	70	170	380	1200	T	T	T	T
	2			36	48	130	250	490	780	1100	1600	2300
	3					14	210	410	640	890	1400	1900
	4					10	120	330	500	670	970	1400
	6						120	190	390	520	740	1000
	10							190	240	300	580	810
	16									300	380	480
	20										380	480
	25											480

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

T Total selectivity.

No selectivity.

Selectivity table

Upstream: iC60N/H/L curve B
Downstream: iDPN/iDPN N curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve B												
In (A)		2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**1P+N 3P, 3P+N**													
Selectivity limit (A)														
iDPN **iDPN N** Curve B	**1**	8	12	16	30	60	80	110	130	150	270	410	450	620
	2		12	16	24	40	50	90	80	100	220	300	330	440
	3				24	40	50	64	80	100	210	270	300	410
	4				14	40	50	64	80	100	190	270	300	380
	6					40	50	64	80	100	130	240	250	250
	10							64	80	100	130	160	200	250
	16									100	130	160	200	250
	20										130	160	200	250
	25											160	200	250
	32												200	250
	40													250
Selectivity limit (A)														
iDPN **iDPN N** Curve C	**1**		12	16	30	60	80	110	130	150	270	410	450	620
	2			5	24	40	50	90	80	100	220	300	330	440
	3				17	40	50	64	80	100	210	270	300	410
	4					34	50	64	80	100	190	270	300	380
	6							47	80	100	130	240	250	250
	10								64	80	130	160	200	250
	16										102	128	200	250
	20											128	160	250
	25												160	201
	32													201
Selectivity limit (A)														
iDPN **iDPN N** Curve D	**1**			12	30	60	80	110	130	150	270	410	450	620
	2				19	40	50	90	80	100	220	300	330	440
	3					32	50	64	80	100	210	270	300	410
	4							51	80	100	190	270	300	380
	6								59	78	130	240	250	250
	10										102	128	200	250
	16											128	160	201
	20												160	201
	25													201

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

No selectivity.

Selectivity table

Upstream: iC60N/H/L curve C
Downstream: iDPN/iDPN N curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve C													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**1P+N** **3P, 3P+N**														
Selectivity limit (A)															
iDPN **iDPN N** Curve B	**1**		16	24	32	48	80	100	210	270	390	540	790	1500	1600
	2			24	32	48	80	100	130	160	300	410	540	910	930
	3				5	48	80	100	130	160	200	260	510	750	760
	4					48	80	100	130	160	200	260	480	720	760
	6						80	100	130	160	200	260	320	400	500
	10							100	130	160	200	260	320	400	500
	16										200	260	320	400	500
	20											260	320	400	500
	25												320	400	500
	32													400	500
	40														500
Selectivity limit (A)															
iDPN **iDPN N** Curve C	**1**		16	24	32	48	80	100	210	270	390	540	790	1500	1600
	2			24	32	48	80	100	130	160	300	410	540	910	930
	3					48	80	100	130	160	200	260	510	750	760
	4					14	80	100	130	160	200	260	480	720	760
	6						80	100	130	160	200	260	320	400	500
	10								130	160	200	260	320	400	500
	16										83	260	320	400	500
	20											260	320	400	500
	25												124	400	500
	32													163	500
	40														186
Selectivity limit (A)															
iDPN **iDPN N** Curve D	**1**		16	24	32	48	80	100	210	270	390	540	790	1500	1600
	2				25	48	80	100	130	160	300	410	540	910	930
	3						80	100	130	160	200	260	510	750	760
	4						80	100	130	160	200	260	480	720	760
	6							100	130	160	200	260	320	400	500
	10										200	260	320	400	500
	16										83	165	320	400	500
	20												151	400	500
	25													176	500
	32														255

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

No selectivity.

Selectivity table

Upstream: iC60N/H/L curve D
Downstream: iDPN/iDPN N curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve D													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**1P+N**														
	3P, 3P+N														
Selectivity limit (A)															
iDPN	**1**		30	50	70	72	120	260	350	540	700	1100	1500	2000	2000
iDPN N	**2**			36	48	72	120	160	190	390	510	700	960	1500	2000
Curve B	**3**				5	72	120	160	190	360	450	580	840	1200	1500
	4					72	120	160	190	240	450	580	780	1100	1400
	6						120	160	190	240	300	380	720	1000	1200
	10							160	190	240	300	380	480	600	760
	16										300	380	480	600	760
	20											380	480	600	760
	25												480	600	760
	32													600	760
	40														760
Selectivity limit (A)															
iDPN	**1**		30	50	70	72	120	260	350	540	700	1100	1500	2000	2000
iDPN N	**2**			36	48	72	120	160	190	390	510	700	960	1500	2000
Curve C	**3**				5	72	120	160	190	360	450	580	840	1200	1500
	4					14	120	160	190	240	450	580	780	1100	1400
	6						120	160	190	240	300	380	720	1000	1200
	10							34	190	240	300	380	480	600	760
	16										300	380	480	600	760
	20											380	480	600	760
	25												124	600	760
	32													163	760
	40														186
Selectivity limit (A)															
iDPN	**1**		30	50	70	72	120	260	350	540	700	1100	1500	2000	2000
iDPN N	**2**			36	48	72	120	160	190	390	510	700	960	1500	2000
Curve D	**3**					17	120	160	190	360	450	580	840	1200	1500
	4					14	120	160	190	240	450	580	780	1100	1400
	6						120	160	190	240	300	380	720	1000	1200
	10								57	240	300	380	480	600	760
	16										83	380	480	600	760
	20											155	151	600	760
	25												124	180	760
	32													163	760
	40														186

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

No selectivity.

Selectivity table

Upstream: iC60N/H/L curve B
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve B													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**														
Selectivity limit (A)															
iC60N/H/L Curve B	**0.5**	4	10	40	60	T	T	T	T	T	T	T	T	T	T
	1		10	12	16	40	70	120	170	210	300	780	1300	1700	4000
	2			12	16	30	60	90	130	140	200	370	520	630	960
	3					30	40	70	90	120	150	250	380	460	670
	4					30	40	52	90	80	100	250	310	380	470
	6						40	52	64	80	100	190	290	300	440
	10								64	80	100	130	240	200	380
	13									80	100	130	240	200	250
	16										100	130	160	200	250
	20											130	160	200	250
	25												160	200	250
	32													200	250
	40														250
	50														
Selectivity limit (A)															
iC60N/H/L Curve C	**0.5**		10	40	60	T	T	T	T	T	T	T	T	T	T
	1				16	30	70	120	170	210	300	780	1300	1700	4000
	2				16	18	60	90	130	160	200	370	520	630	960
	3					15	40	70	90	120	150	250	380	460	670
	4						27	52	90	80	100	250	310	380	470
	6								51	80	100	190	290	300	440
	10									64	80	130	240	200	250
	13											102	160	200	250
	16											102	128	200	250
	20												128	160	250
	25													160	200
	32														200
Selectivity limit (A)															
iC60N/H/L Curve D	**0.5**			30	50	T	T	T	T	T	T	T	T	T	T
	1				12	30	60	120	170	210	300	780	1300	1700	4000
	2					19	40	70	110	140	180	370	520	630	860
	3						31	41	90	120	150	250	380	460	670
	4								48	80	100	220	310	340	470
	6									64	80	190	240	300	380
	10											100	128	200	250
	13												128	160	250
	16												128	160	200
	20													160	200
	25														200

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

T Total selectivity.

No selectivity.

Selectivity table

Upstream: iC60N/H/L curve B
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve B													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**2P (220-240 V) single-phase network**														
Selectivity limit (A)															
iC60N/H/L Curve B	**0.5**	4	210	T	T	T	T	T	T	T	T	T	T	T	T
	1		10	20	20	60	110	260	530	790	2000	T	T	T	T
	2			12	16	30	70	140	200	250	400	880	1700	2500	5300
	3					30	40	90	130	160	250	550	800	1100	1400
	4						40	70	110	120	180	370	520	630	960
	6						40	52	64	80	100	270	380	460	630
	10								64	80	100	190	290	300	440
	13									80	100	130	240	200	380
	16										100	130	240	200	250
	20											130	160	200	250
	25												160	200	250
	32													200	250
	40														250
	50														
Selectivity limit (A)															
iC60N/H/L Curve C	**0.5**		170	T	T	T	T	T	T	T	T	T	T	T	T
	1				20	60	110	260	530	790	2000	T	T	T	T
	2				16	18	70	140	200	250	400	880	1700	2500	5300
	3					15	40	90	130	160	230	550	800	1100	1400
	4						27	70	90	120	180	370	520	630	860
	6								51	80	100	230	380	410	630
	10									64	80	130	240	300	440
	13											102	240	200	380
	16											102	128	200	250
	20												128	160	250
	25													160	200
	32														200
Selectivity limit (A)															
iC60N/H/L Curve D	**0.5**			T	T	T	T	T	T	T	T	T	T	T	T
	1				12	50	110	260	530	790	2000	T	T	T	T
	2					19	60	120	200	250	350	1100	1700	2500	5300
	3						31	41	110	140	230	490	800	960	1400
	4								48	80	150	310	450	630	860
	6									64	80	230	330	410	500
	10											100	128	200	380
	13												128	160	250
	16												128	160	200
	20													160	200
	25														200

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: iC60N/H/L curve C
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve C													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**														
Selectivity limit (A)															
iC60N/H/L Curve B	**0.5**	8	60	T	T	T	T	T	T	T	T	T	T	T	T
	1		16	24	32	70	180	210	370	590	1100	2400	7000	T	T
	2			24	32	48	140	160	220	310	460	780	1200	2000	2000
	3				5	48	120	104	190	280	380	580	820	1400	1400
	4					14	80	104	130	240	300	430	590	1000	1100
	6						80	104	130	160	200	380	480	770	850
	10							104	130	160	200	260	320	680	500
	13									160	200	260	320	600	500
	16										200	260	320	600	500
	20											260	320	400	500
	25												320	400	500
	32													400	500
	40														500
	50														
Selectivity limit (A)															
iC60N/H/L Curve C	**0.5**	8	50	T	T	T	T	T	T	T	T	T	T	T	T
	1		16	24	32	70	180	210	370	590	1100	2400	7900	T	T
	2			24	32	48	120	160	220	310	460	780	1200	2000	2000
	3					16	80	104	190	280	380	480	820	1400	1400
	4					14	80	104	130	160	300	430	590	1000	1100
	6						80	104	130	160	200	380	480	770	850
	10								130	160	200	260	320	680	500
	13									55	200	260	320	600	500
	16										71	260	320	400	500
	20											260	320	400	500
	25												127	400	500
	32													168	500
	40														500
	50														
Selectivity limit (A)															
iC60N/H/L Curve D	**0.5**		50	T	T	T	T	T	T	T	T	T	T	T	T
	1			24	32	70	180	210	370	590	1100	2400	7900	T	T
	2				25	48	120	160	220	310	460	680	1200	2000	2000
	3					15	80	104	130	240	380	480	710	1400	1400
	4						28	100	130	160	300	430	590	1000	910
	6								130	160	200	260	480	770	760
	10									73	200	260	320	600	500
	13										79	260	320	600	500
	16										71	194	320	400	500
	20												135	400	500
	25													174	500
	32														277
	40														

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

T Total selectivity.

No selectivity.

Selectivity table

Upstream: iC60N/H/L curve C
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve C													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**2P (220-240 V) single-phase network**														
Selectivity limit (A)															
iC60N/H/L Curve B	**0.5**	20	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		20	40	50	120	540	940	2700	T	T	T	T	T	T
	2			24	32	70	210	260	430	800	1500	3600	7900	52000	53000
	3				5	48	140	180	250	450	710	1200	2100	11000	9800
	4					14	120	160	220	310	460	680	940	2000	2000
	6						80	104	130	240	350	510	770	1300	1100
	10							104	130	160	200	380	550	930	950
	13									160	200	260	480	770	760
	16										200	260	320	400	500
	20											260	320	400	500
	25												320	400	500
	32													400	500
	40														500
	50														
Selectivity limit (A)															
iC60N/H/L Curve C	**0.5**	20	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		20	40	50	120	540	940	2700	T	T	T	T	T	T
	2			24	32	70	210	260	430	660	1500	3600	7900	60000	53000
	3					16	140	180	250	380	710	1200	2100	11000	9800
	4					14	120	104	190	310	460	680	940	2000	2000
	6						80	104	130	160	350	510	620	1300	1100
	10								130	160	200	260	480	770	850
	13									55	200	260	480	770	760
	16										78	260	320	400	500
	20											260	320	400	500
	25												127	400	500
	32													168	500
	40														500
	50														
Selectivity limit (A)															
iC60N/H/L Curve D	**0.5**		T	T	T	T	T	T	T	T	T	T	T	T	T
	1			30	50	120	540	940	2700	T	T	T	T	T	T
	2				25	48	210	260	430	800	1500	3600	7900	60000	53000
	3					15	120	160	250	380	630	1200	2100	11000	9800
	4						28	100	190	280	460	680	940	2000	2000
	6								130	160	300	450	620	1100	1100
	10									73	200	260	480	770	850
	13										79	260	320	680	760
	16										71	194	320	400	500
	20												135	400	500
	25													174	500
	32														277
	40														

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: iC60N/H/L curve D
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve D													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**														
Selectivity limit (A)															
iC60N/H/L Curve B	**0.5**	20	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		30	50	70	150	290	510	770	2000	3900	T	T	T	T
	2			36	48	110	210	300	450	730	890	1400	2300	5000	6800
	3				5	72	180	230	330	550	670	1100	1300	2800	4300
	4					72	120	160	290	410	560	840	1000	2000	2400
	6						120	160	190	360	450	660	910	1300	1600
	10							28	190	240	300	380	720	1100	1400
	13									240	300	380	480	900	1100
	16										300	380	480	900	1100
	20											380	480	600	760
	25												480	600	760
	32													600	760
	40														760
	50														
Selectivity limit (A)															
iC60N/H/L Curve C	**0.5**	20	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		30	50	70	150	290	510	770	2000	3900	T	T	T	T
	2			36	48	110	210	300	450	730	890	1600	2300	5000	6800
	3				5	15	120	230	330	550	670	1100	1300	2800	4300
	4					13	120	160	290	410	560	710	1000	2000	2400
	6						120	160	190	360	450	660	910	1300	1600
	10							28	49	240	300	380	720	1100	1100
	13									52	300	380	480	900	1100
	16										71	380	480	900	760
	20											380	480	600	760
	25												105	600	760
	32													153	760
	40														760
	50														
Selectivity limit (A)															
iC60N/H/L Curve D	**0.5**	20	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		30	50	70	150	290	510	770	2000	3900	T	T	T	T
	2			36	48	110	210	300	370	640	890	1600	2300	5000	6800
	3					15	120	230	330	450	670	970	1300	2800	3800
	4					13	28	160	190	410	560	710	1000	1600	2400
	6						32	160	190	240	450	580	810	1300	1600
	10								49	73	300	380	480	1100	1100
	13									52	80	380	480	900	1100
	16										71	380	480	900	760
	20											105	135	600	760
	25												105	174	760
	32													153	760
	40														245
	50														

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

T Total selectivity.

No selectivity.

Selectivity table

Upstream: iC60N/H/L curve D
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve D													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**2P (220-240 V) single-phase network**														
Selectivity limit (A)															
iC60N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		50	100	130	340	1600	10000	T	T	T	T	T	T	T
	2			50	80	150	350	650	1100	2600	5800	16000	45000	T	T
	3				5	110	240	370	530	920	1600	3800	9500	T	T
	4					72	180	270	370	640	890	1400	2300	7100	12000
	6						120	160	290	480	590	900	1300	2200	2600
	10							28	190	360	450	660	910	1500	1900
	13									240	450	580	810	1300	1600
	16										300	380	720	1100	1400
	20											380	480	900	1100
	25												480	900	760
	32													600	760
	40														760
	50														
Selectivity limit (A)															
iC60N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		50	100	130	340	1600	10000	T	T	T	T	T	T	T
	2			50	70	150	350	580	1100	2600	5800	16000	45000	T	T
	3				5	15	240	370	530	920	1600	3800	9500	T	T
	4					13	180	270	370	640	890	1400	1900	7100	12000
	6						120	160	290	480	590	900	1300	2200	2600
	10							28	190	360	450	660	910	1500	1900
	13									52	300	580	810	1300	1600
	16										71	380	720	1100	1400
	20											380	480	900	1100
	25												105	600	760
	32													153	760
	40														760
	50														
Selectivity limit (A)															
iC60N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		40	80	130	340	1600	10000	T	T	T	T	T	T	T
	2			50	70	150	350	650	1200	2600	5800	16000	45000	T	T
	3					15	210	300	530	920	1600	3800	9500	T	T
	4					13	28	230	370	640	890	1400	1900	7100	12000
	6						32	160	190	420	590	900	1100	2200	2600
	10								49	73	450	660	910	1500	1900
	13									52	300	380	720	1300	1600
	16										71	380	480	1100	1400
	20											105	480	900	1100
	25												105	174	760
	32													153	760
	40														245
	50														

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve B
Downstream: iDPN curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN Curve B	**1**	300	500	700	1000	1500	2000	2500	T	T	T	T
	2	150	300	500	700	1000	1500	2000	T	T	T	T
	3	40	64	300	500	700	1000	1500	T	T	T	T
	4	40	64	80	400	500	700	800	3000	T	T	T
	6	40	64	80	400	500	700	800	3000	T	T	T
	10		64	80	100	130	500	600	1800	3000	T	T
	16				100	130	160	200	1000	2000	3300	3750
	20					52	160	200	1000	1600	2500	3700
	25						59	200	800	1300	2100	3700
	32							200	600	1000	1800	2700
	40								112	320	1600	2400
Selectivity limit (A)												
iDPN Curve C	**1**	300	500	700	1000	1500	2000	2500	T	T	T	T
	2	150	300	500	700	1000	1500	2000	T	T	T	T
	3	40	64	300	500	700	1000	1500	T	T	T	T
	4	40	64	80	400	500	700	800	3000	T	T	T
	6		51	80	100	500	700	800	3000	T	T	T
	10				80	130	500	600	1800	3000	4000	T
	16					98	128	200	1000	2000	3300	3700
	20						128	160	1000	1600	2500	3700
	25							160	201	1300	2100	3700
	32								201	256	1800	2700
	40									255	320	2400
Selectivity limit (A)												
iDPN Curve D	**1**	300	500	700	1000	1500	2000	2500	T	T	T	T
	2	150	300	500	700	1000	1500	2000	T	T	T	T
	3		64	300	500	700	1000	1500	T	T	T	T
	4			80	400	500	700	800	3000	T	T	T
	6					500	700	800	3000	T	T	T
	10							600	1800	3000	4000	T
	16								201	2000	3300	3700
	20								201	256	2500	3700
	25								201	256	320	3700
	32									256	320	400
	40										320	400

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

T Total selectivity.

No selectivity.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve B
Downstream: iDPN N curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN N Curve B	**1**	300	500	700	1000	1500	2000	2500	T	T	T	T
	2	150	300	500	700	1000	1500	2000	T	T	T	T
	3	40	64	300	500	700	1000	1500	T	T	T	T
	4	40	64	80	400	500	700	800	3000	T	T	T
	6	40	64	80	400	500	700	800	3000	T	T	T
	10		64	80	100	130	500	600	1800	3000	T	T
	16				100	130	160	200	1000	2000	3300	3750
	20					52	160	200	1000	1600	2500	3700
	25						59	200	800	1300	2100	3700
	32							200	600	1000	1800	2700
	40								112	320	1600	2400
Selectivity limit (A)												
iDPN N Curve C	**1**	300	500	700	1000	1500	2000	2500	T	T	T	T
	2	150	300	500	700	1000	1500	2000	T	T	T	T
	3	40	64	300	500	700	1000	1500	T	T	T	T
	4	40	64	80	400	500	700	800	3000	T	T	T
	6		51	80	100	500	700	800	3000	T	T	T
	10				80	130	500	600	1800	3000	4000	T
	16					98	128	200	1000	2000	3300	3700
	20						128	160	1000	1600	2500	3700
	25							160	201	1300	2100	3700
	32								201	256	1800	2700
	40									255	320	2400
Selectivity limit (A)												
iDPN N Curve D	**1**	300	500	700	1000	1500	2000	2500	T	T	T	T
	2	150	300	500	700	1000	1500	2000	T	T	T	T
	3		64	300	500	700	1000	1500	T	T	T	T
	4			80	400	500	700	800	3000	T	T	T
	6					500	700	800	3000	T	T	T
	10							600	1800	3000	4000	T
	16								201	2000	3300	3700
	20								201	256	2500	3700
	25								201	256	320	3700
	32									256	320	400
	40										320	400

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

T Total selectivity.

No selectivity.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve C
Downstream: iDPN curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN Curve B	**1**	300	500	700	1000	T	T	T	T	T	T	T
	2	150	300	500	700	1000	1500	T	T	T	T	T
	3	120	200	300	500	700	1000	1500	T	T	T	T
	4	80	130	170	400	500	700	800	3000	T	T	T
	6	80	130	170	400	500	700	800	3000	T	T	T
	10		130	160	200	350	500	600	1800	3000	T	T
	16				200	270	340	450	1250	2000	3300	3700
	20					52	320	400	1000	1600	2500	3700
	25						59	400	800	1300	2100	3700
	32							95	600	1000	1800	2700
	40								112	700	1600	2400
Selectivity limit (A)												
iDPN Curve C	**1**	300	500	700	1000	T	T	T	T	T	T	T
	2	150	300	500	700	1000	1500	T	T	T	T	T
	3	120	200	300	500	700	1000	1500	T	T	T	T
	4	21	200	170	400	500	700	800	3000	4500	4500	T
	6	18	200	170	400	500	700	800	3000	4500	4500	T
	10		25	160	200	350	500	600	1800	3000	4500	4500
	16				200	270	340	450	1250	2000	3300	3700
	20					52	320	400	1000	1600	2500	3700
	25						59	400	800	1300	2100	3700
	32							95	800	1000	1800	2700
	40								112	257	1600	2400
Selectivity limit (A)												
iDPN Curve D	**1**	300	500	700	1000	T	T	T	T	T	T	T
	2	150	300	500	700	1000	1500	T	T	T	T	T
	3	120	200	300	500	700	1000	1500	T	T	T	T
	4	21	200	170	400	500	700	800	3000	4500	4500	T
	6				400	500	700	800	3000	4500	4500	T
	10				200	450	500	600	1800	3000	4500	4500
	16							450	1000	2000	3300	3700
	20								1000	1600	2500	3700
	25								800	1300	2100	3700
	32										1800	2700
	40											2400

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

T Total selectivity.

No selectivity.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve C
Downstream: iDPN N curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN N Curve B	**1**	300	500	700	1000	T	T	T	T	T	T	T
	2	150	300	500	700	1000	1500	T	T	T	T	T
	3	120	200	300	500	700	1000	1500	T	T	T	T
	4	80	130	170	400	500	700	800	3000	T	T	T
	6	80	130	170	400	500	700	800	3000	T	T	T
	10		130	160	200	350	500	600	1800	3000	T	T
	16				200	270	340	450	1250	2000	3300	3700
	20					52	320	400	1000	1600	2500	3700
	25						59	400	800	1300	2100	3700
	32							95	600	1000	1800	2700
	40								112	700	1600	2400
Selectivity limit (A)												
iDPN N Curve C	**1**	300	500	700	1000	T	T	T	T	T	T	T
	2	150	300	500	700	1000	1500	T	T	T	T	T
	3	120	200	300	500	700	1000	1500	T	T	T	T
	4	21	200	170	400	500	700	800	3000	4500	4500	T
	6	18	200	170	400	500	700	800	3000	4500	4500	T
	10		25	160	200	350	500	600	1800	3000	4500	4500
	16				200	270	340	450	1000	2000	3300	3700
	20					52	320	400	1000	1600	2500	3700
	25						59	400	800	1300	2100	3700
	32							95	800	1000	1800	2700
	40								112	257	1600	2400
Selectivity limit (A)												
iDPN N Curve D	**1**	300	500	700	1000	T	T	T	T	T	T	T
	2	150	300	500	700	1000	1500	T	T	T	T	T
	3	120	200	300	500	700	1000	1500	T	T	T	T
	4	21	200	170	400	500	700	800	3000	4500	4500	T
	6				400	500	700	800	3000	4500	4500	T
	10				200	450	500	600	1800	3000	4500	4500
	16							450	1000	2000	3300	3700
	20								1000	1600	2500	3700
	25								800	1300	2100	3700
	32										1800	2700
	40											2400

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

T Total selectivity.

No selectivity.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve D
Downstream: iDPN curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN Curve B	**1**	350	T	T	T	T	T	T	T	T	T	T
	2	240	770	830	2000	2200	4800	T	T	T	T	T
	3	180	610	640	1600	1700	3800	T	T	T	T	T
	4	120	450	500	1000	1100	1900	4600	T	T	T	T
	6	120	340	360	730	740	1200	2600	4700	T	T	T
	10		192	240	550	580	860	1600	2800	3500	5600	T
	16				300	380	480	1200	1900	2400	3600	4200
	20					380	480	1000	1500	2000	2900	3300
	25						59	950	1400	1700	2600	2900
	32							600	1100	1600	2200	2600
	40								756	1400	2100	2400
Selectivity limit (A)												
iDPN Curve C	**1**	350	T	T	T	T	T	T	T	T	T	T
	2	240	770	830	2000	2200	4800	T	T	T	T	T
	3	180	610	640	1600	1700	3800	T	T	T	T	T
	4	120	450	500	1000	1100	1900	4600	T	T	T	T
	6	18	192	360	730	740	1200	2600	4700	T	T	T
	10		29	240	550	580	860	1600	2800	3500	5600	T
	16				49	380	480	1200	1900	2400	3600	4200
	20					52	480	1000	1500	2000	2900	3300
	25						59	600	1400	1700	2600	2900
	32							95	1100	1600	2200	2600
	40								756	960	2100	2400
Selectivity limit (A)												
iDPN Curve D	**1**	350	T	T	T	T	T	T	T	T	T	T
	2	240	770	830	2000	2200	4800	T	T	T	T	T
	3	120	610	640	1600	1700	3800	T	T	T	T	T
	4	21	450	500	1000	1100	1900	4600	T	T	T	T
	6	18	192	360	730	740	1200	2600	4700	T	T	T
	10		25	240	300	580	860	1600	2800	3500	5600	T
	16				49	380	480	1200	1900	2400	3600	4200
	20					52	480	1000	1500	2000	2900	3300
	25						59	600	756	1700	2600	2900
	32							95	756	1600	2200	2600
	40								756	960	2100	2400

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

T Total selectivity.

No selectivity.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve D
Downstream: iDPN N curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN N Curve B	1	350	T	T	T	T	T	T	T	T	T	T
	2	240	770	830	2000	2200	4800	T	T	T	T	T
	3	180	610	640	1600	1700	3800	T	T	T	T	T
	4	120	450	500	1000	1100	1900	4600	T	T	T	T
	6	120	340	360	730	740	1200	2600	4700	6200	T	T
	10		192	240	550	580	860	1600	2800	3500	5600	7300
	16				300	380	480	1200	1900	2400	3600	4200
	20					380	480	1000	1500	2000	2900	3300
	25						59	950	1400	1700	2600	2900
	32							600	1100	1600	2200	2600
	40								756	1400	2100	2400
Selectivity limit (A)												
iDPN N Curve C	1	350	T	T	T	T	T	T	T	T	T	T
	2	240	770	830	2000	2200	4800	T	T	T	T	T
	3	180	610	640	1600	1700	3800	T	T	T	T	T
	4	120	450	500	1000	1100	1900	4600	T	T	T	T
	6	18	192	360	730	740	1200	2600	4700	6200	T	T
	10		29	240	550	580	860	1600	2800	3500	5600	7300
	16				49	380	480	1200	1900	2400	3600	4200
	20					52	480	1000	1500	2000	2900	3300
	25						59	600	1400	1700	2600	2900
	32							95	1100	1600	2200	2600
	40								756	960	2100	2400
Selectivity limit (A)												
iDPN N Curve Da	1	350	T	T	T	T	T	T	T	T	T	T
	2	240	770	830	2000	2200	4800	T	T	T	T	T
	3	120	610	640	1600	1700	3800	T	T	T	T	T
	4	21	450	500	1000	1100	1900	4600	T	T	T	T
	6	18	192	360	730	740	1200	2600	4700	6200	T	T
	10		25	240	300	580	860	1600	2800	3500	5600	7300
	16				49	380	480	1200	1900	2400	3600	4200
	20					52	480	1000	1500	2000	2900	3300
	25						59	600	756	1700	2600	2900
	32							95	756	1600	2200	2600
	40								756	960	2100	2400

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

T Total selectivity.

No selectivity.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve B
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**											
Selectivity limit (A)												
iC60N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	70	150	210	350	550	2000	2500	T	T	T	T
	2	60	110	140	230	310	590	630	1200	2100	3900	9700
	3	40	90	120	180	220	380	460	770	1400	2000	5300
	4	40	64	80	150	190	310	380	570	940	1400	2400
	6	15	64	80	100	130	290	300	440	620	930	1700
	10		22	80	100	130	200	200	380	550	770	1300
	13			28	100	130	160	200	380	480	680	1100
	16				35	130	160	200	250	320	600	940
	20					46	160	200	250	320	400	850
	25						56	200	250	320	400	750
	32							80	250	320	400	500
	40								250	320	400	500
	50									320	400	500
	63											500
Selectivity limit (A)												
iC60N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	70	150	210	350	550	2000	2500	T	T	T	T
	2	40	110	140	230	250	590	630	1200	2100	3900	9700
	3	30	64	120	180	220	380	460	770	1400	2000	5300
	4		64	80	150	190	310	340	570	940	1400	2400
	6			80	100	130	290	300	440	620	930	1700
	10					130	160	200	380	550	770	1100
	13						160	200	250	480	680	940
	16							200	250	320	600	940
	20									320	400	850
	25									320	400	750
	32											500
	40											500
Selectivity limit (A)												
iC60N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	60	150	210	350	550	2000	2500	T	T	T	T
	2	40	90	140	200	250	520	630	1200	2100	3900	9700
	3		64	80	180	220	380	380	770	1200	2000	5300
	4			80	150	190	310	340	570	820	1100	2400
	6					130	240	200	440	620	930	1700
	10							200	380	480	770	1100
	13								250	480	680	940
	16									320	600	940
	20										400	750
	25											500
	32											

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

T Total selectivity.

No selectivity.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve B
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V) single-phase network**											
Selectivity limit (A)												
iC60N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	120	490	T	T	T	T	T	T	T	T	T
	2	60	160	350	500	1200	4200	8100	T	T	T	T
	3	40	110	170	250	520	1300	1900	6700	T	T	T
	4	40	64	80	190	280	630	750	1400	2700	6200	T
	6	15	64	80	150	150	350	430	810	1400	2100	6100
	10		22	80	100	130	160	200	500	840	1300	2500
	13			28	100	130	240	200	440	770	1100	1900
	16				35	130	160	200	380	520	770	1400
	20					46	160	200	250	320	600	1000
	25						56	200	250	320	400	890
	32							80	250	320	400	840
	40								250	320	400	790
	50									320	400	750
	63											500
Selectivity limit (A)												
iC60N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	120	490	T	T	T	T	T	T	T	T	T
	2	60	160	350	500	1200	4200	8100	T	T	T	T
	3	30	110	170	250	520	1300	1900	6700	T	T	T
	4		64	80	190	280	630	750	1400	2700	6200	T
	6			80	150	150	350	430	810	1400	2100	6100
	10					130	160	200	500	840	1300	2500
	13						160	200	440	620	1100	1900
	16							200	380	520	770	1400
	20									320	600	1000
	25									320	400	890
	32											840
	40											500
Selectivity limit (A)												
iC60N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	120	490	T	T	T	T	T	T	T	T	T
	2	60	160	350	500	1200	4200	8100	T	T	T	T
	3		110	170	250	520	1300	1900	6700	T	T	T
	4			80	190	280	630	750	1400	2700	6200	T
	6					150	350	430	810	1400	2100	6100
	10							200	500	840	1300	2500
	13								380	620	930	1900
	16									520	770	1400
	20										600	1000
	25											890
	32											

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve C
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**											
Selectivity limit (A)												
iC60N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	140	490	920	2300	T	T	T	T	T	T	T
	2	80	250	380	550	1800	2400	8800	10000	13000	T	T
	3	80	190	280	380	1200	1400	4600	8000	8500	14000	T
	4	80	130	240	300	800	820	2000	2300	3400	7000	13000
	6	15	130	160	200	610	650	1400	2300	2300	3600	6400
	10		22	160	200	500	510	1100	1300	1600	2200	3600
	13			28	200	460	470	930	1100	1400	2000	2600
	16				35	380	430	770	950	1200	1700	2300
	20					46	320	680	850	960	1500	2100
	25						56	600	760	960	1200	1800
	32							80	500	640	1200	1500
	40								130	640	800	1500
	50									640	800	1500
	63										800	1000
Selectivity limit (A)												
iC60N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	140	490	920	2300	T	T	T	T	T	T	T
	2	80	250	380	550	2100	2400	8800	10000	13000	T	T
	3	80	190	280	380	1200	1400	4600	8000	8500	14000	T
	4	18	130	160	300	800	820	2000	2300	3400	6000	13000
	6	15	130	160	200	610	650	1400	2300	2300	3600	5500
	10		22	160	200	500	510	930	1300	1400	2200	3100
	13			28	51	420	430	770	1100	1200	2000	2600
	16				35	256	400	770	950	1200	1700	2300
	20					46	320	680	850	960	1500	1800
	25						56	400	760	960	1200	1800
	32							80	500	640	1200	1500
	40								500	640	800	1500
	50									640	800	1000
	63											1000
Selectivity limit (A)												
iC60N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	140	490	920	2300	T	T	T	T	T	T	T
	2	80	250	380	550	1800	2400	8800	10000	13000	T	T
	3	21	190	280	380	1200	1200	4600	8000	8500	14000	T
	4	18	130	160	300	740	740	2000	2300	3400	6000	13000
	6		130	160	200	570	600	1400	1900	1800	3600	5500
	10				200	450	480	930	1300	1400	2200	3100
	13					256	430	770	950	1200	1700	2600
	16						320	770	950	960	1500	2300
	20							400	760	960	1200	1800
	25									640	1200	1500
	32									640	800	1500
	40											1000
	50											

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

T Total selectivity.

No selectivity.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve C
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V) single-phase network**											
Selectivity limit (A)												
iC60N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	950	T	T	T	T	T	T	T	T	T	T
	2	210	1900	4200	10000	T	T	T	T	T	T	T
	3	120	780	1300	4700	T	T	T	T	T	T	T
	4	80	310	590	1100	4000	13000	T	T	T	T	T
	6	15	190	330	510	1500	2700	7200	9000	9000	T	T
	10		22	160	300	1000	1400	2700	3500	3500	7400	T
	13			28	200	760	910	2000	2700	2700	4900	8100
	16				35	620	620	1600	2700	2700	3600	5500
	20					46	480	1100	1600	1600	2200	3600
	25						56	930	1200	1200	2000	2600
	32							80	930	960	1700	2300
	40								130	960	1400	2000
	50									640	1200	1900
	63										1200	1700
Selectivity limit (A)												
iC60N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	950	T	T	T	T	T	T	T	T	T	T
	2	210	1900	3500	10000	T	T	T	T	T	T	T
	3	80	670	1300	4700	T	T	T	T	T	T	T
	4	18	310	590	1100	3600	13000	T	T	T	T	T
	6	15	190	290	510	1500	2700	7200	9000	9000	T	T
	10		22	160	200	890	1200	2700	3700	3700	6600	T
	13			28	51	760	770	2000	2700	2700	4000	7200
	16				35	256	620	1600	2700	2700	3600	4600
	20					46	320	1100	1400	1400	2200	3600
	25						56	400	1100	1200	2000	2600
	32							80	500	960	1400	2300
	40								500	640	1200	2000
	50									640	800	1700
	63											1000
Selectivity limit (A)												
iC60N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	950	T	T	T	T	T	T	T	T	T	T
	2	210	1700	3500	10000	T	T	T	T	T	T	T
	3	21	550	1300	4700	T	T	T	T	T	T	T
	4	18	310	520	960	3600	13000	T	T	T	T	T
	6		190	240	460	1500	2700	6400	9000	9000	T	T
	10				200	890	1100	2700	3700	3700	6600	T
	13					256	620	2000	2300	2300	4000	7200
	16						320	1400	2300	2300	3100	4600
	20							400	1400	1400	2200	3100
	25									960	1700	2600
	32									640	1400	2000
	40											1800
	50											

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve D
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**											
Selectivity limit (A)												
iC60N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	410	3800	5200	T	T	T	T	T	T	T	T
	2	240	770	920	2600	2700	7400	14000	T	T	T	T
	3	180	610	640	1300	1600	3600	11000	T	T	T	T
	4	120	450	450	890	1100	1900	4100	11000	13000	T	T
	6	15	340	360	730	740	1300	2600	4700	6200	T	T
	10		22	240	590	660	910	1700	2600	3500	T	T
	13			28	300	580	810	1500	2100	2500	4600	T
	16				35	380	720	1300	1900	2400	3600	T
	20					46	480	1100	1600	2000	3000	3600
	25						56	900	1400	1700	2400	2900
	32							83	1100	1700	2400	2600
	40								1100	1400	2100	2300
	50									1400	2000	2300
	63										2000	2300
Selectivity limit (A)												
iC60N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	410	3800	5200	T	T	T	T	T	T	T	T
	2	240	770	920	2600	2700	7400	T	T	T	T	T
	3	21	530	640	1300	1600	3600	11000	T	T	T	T
	4	18	450	450	890	1100	1900	4100	11000	13000	T	T
	6	15	340	360	730	740	1300	2200	4700	6200	T	T
	10		22	240	590	580	910	1700	2600	3500	T	T
	13			28	51	580	720	1300	2100	2500	4100	T
	16				35	380	480	1100	1900	2400	3600	T
	20					46	88	1100	1600	2000	2700	2900
	25						56	600	1400	1700	2400	2900
	32							80	1100	1400	2400	2600
	40								756	1400	2100	2300
	50									960	2000	2300
	63										1800	2300
Selectivity limit (A)												
iC60N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	410	3800	5200	T	T	T	T	T	T	T	T
	2	240	770	920	2600	2700	6300	T	T	T	T	T
	3	21	530	550	1300	1600	3600	11000	T	T	T	T
	4	18	370	450	890	970	1600	3700	11000	13000	T	T
	6	15	340	360	730	740	1100	2200	4700	5400	T	T
	10		22	240	520	580	810	1500	2600	3000	T	T
	13			28	51	380	720	1300	2100	2500	4100	T
	16				35	380	480	1100	1900	2400	3600	T
	20					46	480	900	1400	1700	2700	2900
	25						56	600	1400	1700	2400	2600
	32							80	1100	1400	2100	2600
	40								756	1400	2100	2300
	50									960	1800	1500
	63										1800	1500

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

T Total selectivity.

No selectivity.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve D
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V) single-phase network**											
Selectivity limit (A)												
iC60N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	T	T	T	T	T	T	T	T	T	T	T
	2	1200	T	T	T	T	T	T	T	T	T	T
	3	520	3400	3400	T	T	T	T	T	T	T	T
	4	120	1200	1300	5800	5600	T	T	T	T	T	T
	6	15	700	720	1900	1900	6000	11000	T	T	T	T
	10		22	540	1200	1200	2600	4200	10000	T	T	T
	13			28	300	900	1800	3400	7300	8000	T	T
	16				35	740	1500	2200	4700	5400	T	T
	20					46	910	1700	3500	3500	6900	T
	25						56	1500	2500	2500	5200	6800
	32							83	2000	2400	3400	4400
	40								1800	1900	2900	4000
	50									1900	2800	3300
	63										2300	2800
Selectivity limit (A)												
iC60N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	T	T	T	T	T	T	T	T	T	T	T
	2	1200	T	T	T	T	T	T	T	T	T	T
	3	21	3400	3400	T	T	T	T	T	T	T	T
	4	18	1200	1300	5800	5600	T	T	T	T	T	T
	6	15	700	720	1900	1900	6000	11000	T	T	T	T
	10		22	480	1200	1200	2200	4200	10000	T	T	T
	13			28	51	900	1800	3000	7300	8000	T	T
	16				35	740	1300	2200	4700	5400	T	T
	20					46	88	1700	3500	3500	6900	T
	25						56	600	2500	2500	4600	6800
	32							80	2000	2200	3400	4400
	40								756	1900	2900	3500
	50									960	2300	2800
	63										2300	2800
Selectivity limit (A)												
iC60N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	T	T	T	T	T	T	T	T	T	T	T
	2	1200	T	T	T	T	T	T	T	T	T	T
	3	21	3000	3400	T	T	T	T	T	T	T	T
	4	18	1100	1300	5800	4500	T	T	T	T	T	T
	6	15	600	600	1600	1600	5300	11000	T	T	T	T
	10		22	420	1000	1100	2200	3400	10000	T	T	T
	13			28	51	900	1700	2600	6400	7100	T	T
	16				35	380	1300	2200	3900	4500	T	T
	20					46	480	1500	3000	3500	6000	T
	25						56	600	2100	2500	4100	5900
	32							80	1800	2200	3400	4400
	40								756	1700	2400	2900
	50									960	2300	2800
	63										2000	2300

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve B
Downstream: C120, NG125 curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**											
Selectivity limit (A)												
C120, NG125 Curve B	**10**			80	100	130	160	200	250	320	400	800
	16				100	130	160	200	250	320	400	750
	20					65	160	200	250	320	400	750
	25						160	200	250	320	400	500
	32							200	250	320	400	500
	40								250	320	400	500
	50									320	400	500
	63										400	500
	80											400
Selectivity limit (A)												
C120, NG125 Curve C	**10**					130	160	200	250	320	400	750
	16							200	250	320	400	500
	20								250	320	400	500
	25									320	400	500
	32										400	500
	40											500
Selectivity limit (A)												
C120, NG125 Curve D	**10**							200	250	320	400	750
	16									320	400	500
	20										400	500
	25											500
	32											

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

No selectivity.

Selectivity table

Upstream : NG125N/H/L, C120N/H curve B
Downstream: C120, NG125 curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V) single-phase network**											
Selectivity limit (A)												
C120, NG125 Curve B	**10**			80	100	130	260	200	400	540	670	1100
	16				100	130	240	200	250	480	630	910
	20					65	160	200	250	320	600	830
	25						160	200	250	320	400	830
	32							200	250	320	400	750
	40								250	320	400	750
	50									320	400	500
	63										400	500
	80											400
Selectivity limit (A)												
C120, NG125 Curve C	**10**					130	240	200	250	480	670	980
	16							200	250	320	400	830
	20								250	320	400	830
	25									320	400	750
	32										400	500
	40											500
Selectivity limit (A)												
C120, NG125 Curve D	**10**							200	250	320	630	980
	16									320	400	750
	20										400	750
	25											500
	32											

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve C
Downstream: C120, NG125 curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**											
Selectivity limit (A)												
C120, NG125 Curve B	**10**		130	160	200	260	320	650	820	960	1300	1700
	16				200	260	320	600	760	800	900	1500
	20					65	320	400	500	640	800	1500
	25						320	400	500	640	800	1000
	32							400	500	640	800	1000
	40								500	640	800	1000
	50									640	800	1000
	63										800	1000
	80											1000
	100											
Selectivity limit (A)												
C120, NG125 Curve C	**10**		39	160	200	260	320	650	760	900	1200	1700
	16				70	110	320	400	500	640	800	1500
	20					65	124	400	500	640	800	1000
	25						89	149	500	640	800	1000
	32							123	240	640	800	1000
	40								181	269	800	1000
	50									227	800	1000
	63										800	1000
	80											1000
Selectivity limit (A)												
C120, NG125 Curve D	**10**					260	320	600	760	900	1200	1600
	16						320	400	500	640	800	1000
	20							400	500	640	800	1000
	25								500	640	800	1000
	32										800	1000
	40											1000
	50											

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

No selectivity.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve C
Downstream: C120, NG125 curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V) single-phase network**											
Selectivity limit (A)												
C120, NG125 Curve B	**10**		130	160	200	480	510	930	1100	1200	1700	2500
	16				200	260	320	800	990	1100	1400	2000
	20					65	320	730	910	1100	1400	1900
	25						320	730	830	960	1200	1600
	32							400	830	960	1200	1600
	40								500	640	800	1500
	50									640	800	1500
	63										800	1000
	80											1000
	100											
Selectivity limit (A)												
C120, NG125 Curve C	**10**		39	160	200	260	480	870	1100	1200	1700	2500
	16				70	110	320	730	910	1100	1400	2000
	20					65	124	670	830	960	1300	1700
	25						89	149	500	640	1200	1600
	32							123	240	640	800	1500
	40								181	269	800	1000
	50									227	800	1000
	63										800	1000
	80											1000
Selectivity limit (A)												
C120, NG125 Curve D	**10**					260	320	800	1100	1100	1600	2200
	16						320	630	830	960	1300	1900
	20							400	760	960	1300	1700
	25								500	640	800	1500
	32										800	1500
	40											1000
	50											

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1). If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve D
Downstream: C120, NG125 curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**											
Selectivity limit (A)												
C120, NG125 Curve B	**10**		190	240	300	380	480	970	1300	1600	2200	2500
	16				300	380	480	600	1100	1400	2000	2300
	20					65	480	600	1100	1400	2000	2300
	25						480	600	760	960	1200	1500
	32							600	760	960	1200	1500
	40								760	960	1200	1500
	50									960	1200	1500
	63										1200	1500
	80											1500
	100											
Selectivity limit (A)												
C120, NG125 Curve C	**10**		190	240	300	380	480	970	1300	1600	2200	2500
	16				70	110	480	600	1100	1400	2000	2300
	20					65	124	600	1100	1400	2000	2300
	25						89	149	760	960	1200	1500
	32							123	240	960	1200	1500
	40								181	269	1200	1500
	50									227	1200	1500
	63										1200	1500
	80											1500
	100											
Selectivity limit (A)												
C120, NG125 Curve D	**10**		39	240	300	380	480	970	1300	1600	2200	2500
	16				70	110	480	600	1100	1400	2000	2300
	20					65	124	193	1100	1400	2000	2300
	25						89	149	236	960	1200	1500
	32							123	240	960	1200	1500
	40								181	269	1200	1500
	50									227	1200	1500
	63										1200	1500
	80											1500
	100											

Note: if you cannot find your combination, refer to the selection table on page 12

4000 Selectivity limit = 4 kA.

No selectivity.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve D
Downstream: C120, NG125 curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V) single-phase network**											
Selectivity limit (A)												
C120, NG125 Curve B	**10**		190	240	250	380	720	1300	2000	2400	3700	4800
	16				300	380	480	1100	1600	1900	2600	3200
	20					65	480	1100	1500	1800	2600	2900
	25						480	600	1200	1400	2100	2400
	32							600	1200	1400	2100	2400
	40								760	960	1200	1500
	50									960	1200	1500
	63										1200	1500
	80											1500
	100											
Selectivity limit (A)												
C120, NG125 Curve C	**10**		190	240	250	380	720	1300	2000	2400	3700	4800
	16				70	110	480	1100	1600	1900	2600	3200
	20					65	124	1100	1500	1800	2600	2900
	25						89	149	1200	1400	2100	2400
	32							123	240	1400	2100	2400
	40								181	269	1200	1500
	50									227	1200	1500
	63										1200	1500
	80											1500
	100											
Selectivity limit (A)												
C120, NG125 Curve D	**10**		39	240	250	380	720	1300	2000	2400	3700	4800
	16				70	110	480	1100	1600	1900	2600	3200
	20					65	124	193	1500	1800	2600	2900
	25						89	149	236	1400	2100	2400
	32							123	240	1400	2100	2400
	40								181	269	1200	1500
	50									227	1200	1500
	63										1200	1500
	80											1500
	100											

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Selectivity of circuit breakers

Ue ⩽ 440 V AC

Contents

Downstream	Upstream									
Type	NSXm		NSX100		NSX160		NSX250		NSX400	NSX630
	TM-D	Micrologic	TM-D	Micrologic	TM-D	Micrologic	TM-D	Micrologic	Micrologic	Micrologic
iDPN	page 47	page 48	page 49	page 50	page 49	page 50	page 49	page 50	page 53	page 53
iDPN N	page 47	page 48	page 49	page 50	page 49	page 50	page 49	page 50	page 53	page 53
iC60N/H/L	page 47	page 48	page 49	page 50	page 49	page 50	page 49	page 50	page 53	page 53
C120, NG125	page 47	page 48	page 49	page 50	page 49	page 50	page 49	page 50	page 53	page 53
NSXm	-	-	page 49	page 50	page 49	page 50	page 49	page 50	page 53	page 53
NSX100	-	-	page 51	page 52	page 51	page 52	page 51	page 52	page 53	page 53
NSX160	-	-	page 51	page 52	page 51	page 52	page 51	page 52	page 53	page 53
NSX250	-	-	page 51	page 52	page 51	page 52	page 51	page 52	page 53	page 53
NSX400	-	-	-	-	-	-	-	-	page 53	page 53

Selectivity between circuit breakers

In the following tables we show the level of selectivity between two LV circuits that are protected by circuit breakers up to 440 V, 50/60 Hz systems.
This selectivity will be either:

- total: represented by a **T** (up to the breaking capacity of the downstream device),
- partial: selectivity limit current (Is) indicated. Below this value selectivity is ensured, above this value the upstream device is also involved in breaking,
- zero: no selectivity ensured.

Selectivity table

Upstream: Compact NSXmE/B/F/N/H TM-D
Downstream: iDPN, iC60, C120, NG125

Ue ⩽ 440 V AC

Upstream		NSXm160E/B/F/N/H/TM-D									
Trip unit		TM-D									
In (A)		16	25	32	40	50	63	80	100	125	160
Downstream											
Selectivity limit (kA)											
iDPN Curves B, C	**⩽ 10**	0.5	0.5	0.5	0.5	0.6	0.8	T	T	T	T
	16			0.5	0.5	0.6	0.8	T	T	T	T
	20				0.6	0.6	0.8	T	T	T	T
	25					0.6	0.8	T	T	T	T
	32						0.8	2	T	T	T
	40							2	T	T	T
iDPNN Curves C, D	**⩽ 10**	0.5	0.5	0.5	0.5	0.6	0.8	T	T	T	T
	16			0.5	0.5	0.6	0.8	T	T	T	T
	20				0.6	0.6	0.8	T	T	T	T
	25					0.6	0.8	T	T	T	T
	32						0.8	2	T	T	T
	40							2	T	T	T
iC60N/H Curves B, C, D	**⩽ 10**	0.5	0.5	0.5	0.5	0.6	0.8	T	T	T	T
	13-16			0.5	0.5	0.6	0.8	T	T	T	T
	20				0.5	0.6	0.8	T	T	T	T
	25					0.6	0.8	8	T	T	T
	32						0.8	3	T	T	T
	40							2	T	T	T
	50								6	8	8
	63									8	8
iC60L Curves B, C, D, K, Z	**⩽ 10**	0.5	0.5	0.5	0.5	0.6	0.8	T	T	T	T
	13-16			0.5	0.5	0.6	0.8	T	T	T	T
	20				0.5	0.6	0.8	T	T	T	T
	25					0.6	0.8	8	T	T	T
	32						0.8	3	T	T	T
	40							2	16	16	16
	50								6	8	8
	63									8	8
C120N/H Curves B, C, D	**63**									1.25	1.25
	80										1.25
	100										1.25
	125										
NG125N/H/L Curves B, C, D	**10**	0.6	0.6	0.6	0.6	0.6	0.8	0.8	1	1.25	1.25
	16			0.6	0.6	0.6	0.8	0.8	1	1.25	1.25
	20			0.6	0.6	0.6	0.8	0.8	1	1.25	1.25
	25				0.6	0.6	0.8	0.8	1	1.25	1.25
	32						0.8	0.8	1	1.25	1.25
	40							0.8	1	1.25	1.25
	50							0.8	1	1.25	1.25
	63									1.25	1.25
	80										1.25
	100 (N)										1.25
	125 (N)										

4 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Compact NSXm E/B/F/N/H Micrologic 4.1
Downstream: iDPN, iC60, C120, NG125

Ue ⩽ 440 V AC

Upstream	NSXm E/B/F/N/H									
Trip unit	Micrologic 4.1									
Downstream										
Rating		**25**		**50**			**100**			**160**	
Setting Ir:		**16**	**25**	**32**	**40**	**50**	**63**	**80**	**100**	**125**	**160**
Selectivity limit (kA)											
iDPN B,C curves	**⩽ 10**	0,37	0,37	0,75	0,75	0,75	T	T	T	T	T
	16			0,75	0,75	0,75	T	T	T	T	T
	20				0,75	0,75	T	T	T	T	T
	25					0,75	T	T	T	T	T
	32						T	T	T	T	T
	40							T	T	T	T
iDPNN C,D curves	**⩽ 10**	0,37	0,37	0,75	0,75	0,75	T	T	T	T	T
	16			0,75	0,75	0,75	T	T	T	T	T
	20				0,75	0,75	T	T	T	T	T
	25					0,75	T	T	T	T	T
	32						T	T	T	T	T
	40							T	T	T	T
iC60 N/H B-C-D Curves	**⩽ 10**	0,37	0,37	0,75	0,75	0,75	T	T	T	T	T
	13-16			0,75	0,75	0,75	T	T	T	T	T
	20				0,75	0,75	T	T	T	T	T
	25					0,75	T	T	T	T	T
	32						T	T	T	T	T
	40							T	T	T	T
	50								8	8	8
	63									8	8
iC60 L B-C-D-K-Z Curves	**⩽ 10**	0,37	0,37	0,75	0,75	0,75	T	T	T	T	T
	13-16			0,75	0,75	0,75	T	T	T	T	T
	20				0,75	0,75	T	T	T	T	T
	25					0,75	T	T	T	T	T
	32						T	T	T	T	T
	40							16	16	16	16
	50								8	8	8
	63									8	8
C120 N/H B-C-D Curves	**63**									2,4	2,4
	80										2,4
	100										2,4
	125										
NG125 N/H/L B-C-D Curves	**10**	0,37	0,37	0,75	0,75	0,75	1,5	1,5	1,5	2,4	2,4
	16			0,75	0,75	0,75	1,5	1,5	1,5	2,4	2,4
	20				0,75	0,75	1,5	1,5	1,5	2,4	2,4
	25					0,75	1,5	1,5	1,5	2,4	2,4
	32						1,5	1,5	1,5	2,4	2,4
	40							1,5	1,5	2,4	2,4
	50							1,5	1,5	2,4	2,4
	63									2,4	2,4
	80										2,4
	100 (N)										2,4
	125 (N)										

4 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Compact NSX100-250 TM-D
Downstream: iDPN, iC60, C120, NG125, Compact NSXm

Ue ⩽ 440 V AC

Upstream		NSX100B/F/N/H/S/L/R								NSX160B/F/N/H/S/L				NSX250B/F/N/H/S/L/R		
Trip unit		TM-D								TM-D				TM-D		
In (A)		16	25	32	40	50	63	80	100	80	100	125	160	160	200	250
Downstream																
Selectivity limit (kA)																
iDPN Curves B, C	**⩽ 10**	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	16		0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	20			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	25					0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	32						0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	40						0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
iDPNN Curves C, D	**⩽ 10**	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	16		0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	20			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	25					0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	32						0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	40						0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
iC60N/H Curves B, C, D	**⩽ 10**	0.19	0.3	0.4	0.9	0.9	0.9	1.3	3	1.3	3	T	T	T	T	T
	16		0.3	0.4	0.5	0.5	0.5	1	2	1	2	T	T	T	T	T
	20			0.4	0.5	0.5	0.5	0.63	1.5	0.63	1.5	T	T	T	T	T
iC60L Curves B, C, D, K, Z	**25**				0.5	0.5	0.5	0.63	1.5	0.63	1.5	T	T	T	T	T
	32						0.5	0.63	1	0.63	1	T	T	T	T	T
	40						0.5	0.63	1	0.63	1	T	T	T	T	T
	50							0.63	0.8	0.63	0.8	T	T	T	T	T
	63								0.8		0.8	T	T	T	T	T
C120N/H Curves B, C, D	**63**								0.8		0.8	2.4	2.4	2.4	T	T
	80												2.4	2.4	T	T
	100														T	T
	125															T
NG125N/H/L Curves B, C, D	**10**	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	16		0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	20			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	25					0.5	0.5	0.63	0.8	0.63	0.8	2.4	2.4	2.4	T	T
	32						0.5	0.63	0.8	0.63	0.8	2.4	2.4	2.4	T	T
	40							0.63	0.8	0.63	0.8	2.4	2.4	2.4	T	T
	50							0.63	0.8	0.63	0.8	2.4	2.4	2.4	T	T
	63								0.8		0.8	2.4	2.4	2.4	T	T
	80												2.4	2.4	T	T
	100 (N)														T	T
	125 (N)															T
NSXmE/B/F/N TMD	**16**			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	25				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	32						0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	40							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	50							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	63								0.8		0.8	1.25	1.25	1.25	T	T
	80											1.25	1.25	1.25	T	T
	100												1.25	1.25	T	T
	125														T	T
	160															T
NSXm E/B/F/N/H Micrologic 4.1	**25**				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	50							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	100												1.25	1.25	T	T
	160														T	T

4 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Compact NSX100-250 Micrologic
Downstream: iDPN, iC60, C120, NG125, Compact NSXm

Ue ⩽ 440 V AC

Upstream	NSX100B/F/N/H/S/L/R								NSX160B/F/N/H/S/L				NSX250B/F/N/H/S/L/R		
Trip unit	Micrologic [1]								Micrologic [1]				Micrologic [1]		
Downstream	**Rating (A)**	**40**				**100**				**160**				**250**		
	Setting Ir	**16**	**25**	**32**	**40**	**40**	**63**	**80**	**100**	**80**	**100**	**125**	**160**	**160**	**200**	**250**
Selectivity limit (kA)																
iDPN Curves B, C	**⩽ 10**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	16		T	T	T	T	T	T	T	T	T	T	T	T	T	T
	20			T	T	T	T	T	T	T	T	T	T	T	T	T
	25				T	T	T	T	T	T	T	T	T	T	T	T
	32						T	T	T	T	T	T	T	T	T	T
	40						T	T	T	T	T	T	T	T	T	T
iDPNN Curves C, D	**⩽ 10**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	16		T	T	T	T	T	T	T	T	T	T	T	T	T	T
	20			T	T	T	T	T	T	T	T	T	T	T	T	T
	25				T	T	T	T	T	T	T	T	T	T	T	T
	32						T	T	T	T	T	T	T	T	T	T
	40						T	T	T	T	T	T	T	T	T	T
iC60N/H Curves B, C, D	**⩽ 10**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	16		T	T	T	T	T	T	T	T	T	T	T	T	T	T
	20			T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L Curves B, C, D, K, Z	**25**				T	T	T	T	T	T	T	T	T	T	T	T
	32						T	T	T	T	T	T	T	T	T	T
	40						T	T	T	T	T	T	T	T	T	T
	50							6	6	T	T	T	T	T	T	T
	63								6		T	T	T	T	T	T
C120N/H Curves B, C, D	**63**								1.5		2.4	2.4	2.4	T	T	T
	80											2.4	2.4	T	T	T
	100												2.4	T	T	T
	125														T	T
NG125N/H/L Curves B, C, D	**10**	0.6	0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T	T	T
	16		0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T	T	T
	20			0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T	T	T
	25				0.6	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	32						1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	40						1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	50							1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	63								1.5		2.4	2.4	2.4	T	T	T
	80											2.4	2.4	T	T	T
	100 (N)												2.4	T	T	T
	125 (N)														T	T
NSXmE/B/F/N/H TM-D	**16**				0.6	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	25					1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	32						1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	40							1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	50							1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	63								1.5		2.4	2.4	2.4	T	T	T
	80											2.4	2.4	T	T	T
	100												2.4	T	T	T
	125														T	T
	160															T
NSXm E/B/F/N/H Micrologic 4.1	**25**					1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	50							1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	100												2.4	T	T	T
	160															T

4 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] Applicable for all "Distribution" Micrologic of Compact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) Micrologic of Compact NSX range but curves shall be checked.
Not applicable for "Motor" Micrologic of Compact NSX range ("M" type).

Selectivity table

Upstream: Compact NSX100-250 TM-D
Downstream: Compact NSX100-250 TM-D - Micrologic

Ue ⩽ 440 V AC

Upstream		NSX100B/F/N/H/S/L/R								NSX160B/F/N/H/S/L				NSX250B/F/N/H/S/L/R		
Trip unit		TM-D								TM-D				TM-D		
In (A)		16	25	32	40	50	63	80	100	80	100	125	160	160	200	250
Downstream																
Selectivity limit (kA)																
Compact NSX100 B/F TM-D	**16**				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	25					0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	32						0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	40							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	50							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	63								0.8		0.8	1.25	1.25	1.25	T	T
	80											1.25	1.25	1.25	T	T
	100												1.25	1.25	T	T
Compact NSX100 N/H/S/L/R TM-D	**16**				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	25					0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	32						0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	36	36
	40							0.63	0.8	0.63	0.8	1.25	1.25	1.25	36	36
	50							0.63	0.8	0.63	0.8	1.25	1.25	1.25	36	36
	63								0.8		0.8	1.25	1.25	1.25	36	36
	80											1.25	1.25	1.25	36	36
	100												1.25	1.25	36	36
Compact NSX160 B/F/N/H/S/L TM-D	**⩽ 63**											1.25	1.25	1.25	4	5
	80											1.25	1.25	1.25	4	5
	100												1.25	1.25	4	5
	160															5
Compact NSX250 B/F/N/H/S/L/R TM-D	**⩽ 100**													1.25	2	2.5
	125														2	2.5
	160															2.5
	200															
Compact NSX100 B/F/N/H/S/L/R Micrologic	**40**						0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	2	2.5
	100												1.25	1.25	2	2.5
Compact NSX160 B/F/N/H/S/L Micrologic	**40**						0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	2	2.5
	100												1.25	1.25	2	2.5
	160															2.5
Compact NSX250 B/F/N/H/S/L/R Micrologic	**⩽ 100**													1.25	2	2.5
	160															2.5
	250															

4 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Compact NSX100-250 Micrologic
Downstream: Compact NSX100-250 TM-D - Micrologic

Ue ⩽ 440 V AC

Upstream	NSX100B/F/N/H/S/L/R								NSX160B/F/N/H/S/L				NSX250B/F/N/H/S/L/R		
Trip unit	Micrologic [1]								Micrologic [1]				Micrologic [1]		
Downstream	**Rating (A)**	**40**				**100**				**160**				**250**		
	Setting Ir	**16**	**25**	**32**	**40**	**40**	**63**	**80**	**100**	**80**	**100**	**125**	**160**	**160**	**200**	**250**
Selectivity limit (kA)																
Compact NSX100 B/F TM-D	**16**					1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	25					1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	32						1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	40							1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	50								1.5	2.4	2.4	2.4	2.4	T	T	T
	63										2.4	2.4	2.4	T	T	T
	80											2.4	2.4	T	T	T
	100												2.4	T	T	T
Compact NSX100 N/H/S/L/R TM-D	**16**					1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	25					1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	32						1.5	1.5	1.5	2.4	2.4	2.4	2.4	36	36	36
	40							1.5	1.5	2.4	2.4	2.4	2.4	36	36	36
	50								1.5	2.4	2.4	2.4	2.4	36	36	36
	63										2.4	2.4	2.4	36	36	36
	80											2.4	2.4	36	36	36
	100												2.4	36	36	36
Compact NSX160 B/F/N/H/S/L TM-D	**⩽ 63**										2.4	2.4	2.4	3	3	3
	80											2.4	2.4	3	3	3
	100												2.4	3	3	3
	160															3
Compact NSX250 B/F/N/H/S/L/R TM-D	**⩽ 100**													3	3	3
	125														3	3
	160															3
	200															
Compact NSX100 B/F Micrologic	**40**						1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	100												2.4	T	T	T
Compact NSX100 N/H/S/L/R Micrologic	**40**						1.5	1.5	1.5	2.4	2.4	2.4	2.4	36	36	36
	100												2.4	36	36	36
Compact NSX160 B/F/N/H/S/L Micrologic	**40**									2.4	2.4	2.4	2.4	3	3	3
	100												2.4	3	3	3
	160															3
Compact NSX250 B/F/N/H/S/L/R Micrologic	**⩽ 100**													3	3	3
	160															3
	250															

4 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] Applicable for all "Distribution" Micrologic of Compact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) Micrologic of Compact NSX range but curves shall be checked.
Not applicable for “Motor” Micrologic of Compact NSX range ("M" type).

Selectivity table

Upstream: Compact NSX400-630 Micrologic
Downstream: iDPN, iC60, C120, NG125, Compact NSXm, Compact NSX100-400

Ue ⩽ 440 V AC

Upstream		NSX400F/N/H/S/L/R					NSX630F/N/H/S/L/R				
Trip unit		Micrologic [1]					Micrologic [1]				
Downstream	Rating (A)	400					630				
	Setting Ir	160	200	250	320	400	250	320	400	500	630
Selectivity limit (kA)											
iDPN		T	T	T	T	T	T	T	T	T	T
iDPNN		T	T	T	T	T	T	T	T	T	T
iC60N/H/L		T	T	T	T	T	T	T	T	T	T
C120N/H	⩽ 80	T	T	T	T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T	T	T
	125			T	T	T	T	T	T	T	T
NG125N/H/L	⩽ 80	T	T	T	T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T	T	T
	125			T	T	T	T	T	T	T	T
NSXm E/B/F/N/H TMD	⩽ 100	T	T	T	T	T	T	T	T	T	T
	125		T	T	T	T	T	T	T	T	T
	160			T	T	T	T	T	T	T	T
NSXm E/B/F/N/H Micrologic 4.1	25	T	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T
	160			T	T	T	T	T	T	T	T
Compact NSX100 B/F/N/H/S/L/R TM-D	⩽ 80	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F/N/H/S/L TM-D	⩽ 100	T	T	T	T	T	T	T	T	T	T
	125		T	T	T	T	T	T	T	T	T
	160			T	T	T	T	T	T	T	T
Compact NSX250 B/F/N/H/S/L/R TM-D	⩽ 100	4.8	4.8	4.8	4.8	4.8	T	T	T	T	T
	125		4.8	4.8	4.8	4.8	T	T	T	T	T
	160			4.8	4.8	4.8	T	T	T	T	T
	200				4.8	4.8		T	T	T	T
	250					4.8			T	T	T
Compact NSX100 B/F/N/H/S/L/R Micrologic	40	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F/N/H/S/L Micrologic	40	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T
	160			T	T	T	T	T	T	T	T
Compact NSX250 B/F/N/H/S/L/R Micrologic	⩽ 100	4.8	4.8	4.8	4.8	4.8	T	T	T	T	T
	160			4.8	4.8	4.8	T	T	T	T	T
	250					4.8			T	T	T
Compact NSX400 F/N/H/S/L/R Micrologic	160						6.9	6.9	6.9	6.9	6.9
	200							6.9	6.9	6.9	6.9
	250								6.9	6.9	6.9
	320									6.9	6.9
	400										6.9

4 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] Applicable for all "Distribution" Micrologic of Compact NSX range: 2.3, 4.3, 5.3, 6.3, 7.3. For 4.3 and 7.3 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) Micrologic of Compact NSX range but curves shall be checked.
Not applicable for “Motor” Micrologic of Compact NSX range ("M" type).

Selectivity table

Upstream: Compact NS630b-1600N/H Micrologic
Downstream: iDPN, iC60, C120, NG125, NSXm, Compact NSXm, NSX100-630

Ue ⩽ 440 V AC

Upstream	Compact NS630b/800/1000/1250/1600N/H		
Trip unit	Micrologic 2.0	Micrologic 5.0 - 6.0 - 7.0 Inst 15 In	Micrologic 5.0 - 6.0 - 7.0 Inst OFF

Downstream	Rating (A)	630			800	1000	1250	1600	630			800	1000	1250	1600	630			800	1000	1250	1600
	Setting Ir	250	400	630	800	1000	1250	1600	250	400	630	800	1000	1250	1600	250	400	630	800	1000	1250	1600
Selectivity limit (kA)																						
iDPN, iDPNN		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSXm E/B/F/N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX100 B/F/N/H/S/L/R TM-D		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F/N/H/S/L TM-D		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX250 B/F/N/H/S/L/R TM-D	⩽ 125	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	200		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	250		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
Compact NSX100 B/F/N/H/S/L/R Micrologic	40	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F/N/H/S/L Micrologic	40	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX250 B/F/N/H/S/L/R Micrologic	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	250		T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T
Compact NSX400 F/N/H Micrologic	160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	200		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	250		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	320			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
	400			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
Compact NSX400 S/L/R Micrologic	160	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
	200		90	90	90	90	90	90		90	90	90	90	90	90		90	90	90	90	90	90
	250		90	90	90	90	90	90		90	90	90	90	90	90		90	90	90	90	90	90
	320			90	90	90	90	90			90	90	90	90	90			90	90	90	90	90
	400			90	90	90	90	90			90	90	90	90	90			90	90	90	90	90
Compact NSX630 F/N Micrologic	250		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	320			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
	400			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
	500				T	T	T	T				T	T	T	T				T	T	T	T
	630					T	T	T					T	T	T					T	T	T
Compact NSX630 H/S/L/R Micrologic	250		65	65	65	65	65	65		65	65	65	65	65	65		65	65	65	65	65	65
	320			65	65	65	65	65			65	65	65	65	65			65	65	65	65	65
	400			65	65	65	65	65			65	65	65	65	65			65	65	65	65	65
	500				65	65	65	65				65	65	65	65				65	65	65	65
	630					65	65	65					65	65	65					65	65	65

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Compact NS630b-1600N/H Micrologic
Downstream: Compact NS630b-1600

Ue ⩽ 440 V AC

Upstream	Compact NS630b/800/1000/1250/1600N/H		
Trip unit	Micrologic 2.0	Micrologic 5.0 - 6.0 - 7.0 Inst 15 In	Micrologic 5.0 - 6.0 - 7.0 Inst OFF

Downstream	Rating (A)	630		800	1000	1250	1600	630		800	1000	1250	1600	630		800	1000	1250	1600
	Setting Ir	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600
Selectivity limit (kA)																			
Compact NS630bN/H Micrologic	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18	18	18	18	18	18	18	18
	320		6.3	8	10	12.5	16		9.4	12	15	18	18		18	18	18	18	18
	400		6.3	8	10	12.5	16		9.4	12	15	18	18		18	18	18	18	18
	500			8	10	12.5	16			12	15	18	18			18	18	18	18
	630				10	12.5	16				15	18	18				18	18	18
Compact NS800N/H Micrologic	**320**		6.3	8	10	12.5	16		9.4	12	15	18	18		18	18	18	18	18
	400		6.3	8	10	12.5	16		9.4	12	15	18	18		18	18	18	18	18
	500			8	10	12.5	16			12	15	18	18			18	18	18	18
	630				10	12.5	16				15	18	18			18	18	18	18
	800					12.5	16					18	18				18	18	18
Compact NS1000N/H Micrologic	**400**		6.3	8	10	12.5	16		9.4	12	15	18	18		18	18	18	18	18
	500			8	10	12.5	16			12	15	18	18			18	18	18	18
	630				10	12.5	16				15	18	18				18	18	18
	800					12.5	16					18	18					18	18
	1000						16						18						18
Compact NS1250N/H Micrologic	**500**			8	10	12.5	16			12	15	18	18			18	18	18	18
	630				10	12.5	16				15	18	18				18	18	18
	800					12.5	16					18	18					18	18
	1000						16						18						18
	1250																		
Compact NS1600N/H Micrologic	**630**				10	12.5	16				15	18	18				18	18	18
	800					12.5	16					18	18					18	18
	960						16						18						18
	1250																		
	1600																		
Compact NS630bL/LB Micrologic	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18.7	24	30	30	30	30	30	30
	320		6.3	8	10	12.5	16		9.4	12	15	18.7	24		30	30	30	30	30
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		30	30	30	30	30
	500			8	10	12.5	16			12	15	18.7	24			30	30	30	30
	630				10	12.5	16				15	18.7	24				30	30	30
Compact NS800L/LB Micrologic	**320**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		30	30	30	30	30
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		30	30	30	30	30
	500			8	10	12.5	16			12	15	18.7	24			30	30	30	30
	630				10	12.5	16				15	18.7	24				30	30	30
	800					12.5	16					18.7	24					30	30
Compact NS1000L Micrologic	**400**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		30	30	30	30	30
	500			8	10	12.5	16			12	15	18.7	24			30	30	30	30
	630				10	12.5	16				15	18.7	24				30	30	30
	800					12.5	16					18.7	24					30	30
	1000						16						24						30

4 Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Compact NS1600b-3200N Micrologic
Downstream: iDPN, iC60, C120, NG125, Compact NSXm, NSX100-630, NS630b-3200

Ue ⩽ 440 V AC

Upstream		Compact NS1600b/2000/2500/3200N											
Trip unit		Micrologic 2.0				Micrologic 5.0 - 6.0 - 7.0 Inst 15In				Micrologic 5.0 - 6.0 - 7.0 Inst OFF			
Downstream	**Rating (A)**	**1600**	**2000**	**2500**	**3200**	**1600**	**2000**	**2500**	**3200**	**1600**	**2000**	**2500**	**3200**
Selectivity limit (kA)													
iDPN, iDPNN		T	T	T	T	T	T	T	T	T	T	T	T
iC60N/H/L		T	T	T	T	T	T	T	T	T	T	T	T
C120N/H		T	T	T	T	T	T	T	T	T	T	T	T
NG125N/H		T	T	T	T	T	T	T	T	T	T	T	T
NG125L		T	T	T	T	T	T	T	T	T	T	T	T
NSXm E/B/F/N/H		T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX B/F/N/H/S/L/R TM-D	**NSX100**	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F/N/H/S/L TM-D		T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX B/F/N/H/S/L/R Micrologic	**NSX100**	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F/N/H/S/L Micrologic		T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX F/N/H/S/L/R	**NSX400**	T	T	T	T	T	T	T	T	T	T	T	T
	NSX630	T	T	T	T	T	T	T	T	T	T	T	T
Compact NS N	**NS630b**	16	20	25	32	24	30	37.5	48	T	T	T	T
	NS800	16	20	25	32	24	30	37.5	48	T	T	T	T
	NS1000	16	20	25	32	24	30	37.5	48	T	T	T	T
	NS1250		20	25	32		30	37.5	48		T	T	T
	NS1600			25	32			37.5	48			T	T
Compact NS H	**NS630b**	16	20	25	32	24	30	37.5	48	60	60	60	60
	NS800	16	20	25	32	24	30	37.5	48	60	60	60	60
	NS1000	16	20	25	32	24	30	37.5	48	60	60	60	60
	NS1250		20	25	32		30	37.5	48		60	60	60
	NS1600			25	32			37.5	48			60	60
Compact NS N/H	**NS1600b**			25	32			37.5	48			60	60
	NS2000				32				48				60
	NS2500												
	NS3200												
Compact NS L/LB	**NS630bL/LB**	T	T	T	T	T	T	T	T	T	T	T	T
	NS800L/LB	T	T	T	T	T	T	T	T	T	T	T	T
	NS1000L	T	T	T	T	T	T	T	T	T	T	T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Compact NS1600b-3200H Micrologic
Downstream: iDPN, iC60, C120, NG125, NSX100-630, NS630b-3200

Ue ⩽ 440 V AC

Upstream		Compact NS1600b/2000/2500/3200H											
Trip unit		Micrologic 2.0				Micrologic 5.0 - 6.0 - 7.0 Inst 15 In				Micrologic 5.0 - 6.0 - 7.0 Inst OFF			
Downstream	**Rating (A)**	**1600**	**2000**	**2500**	**3200**	**1600**	**2000**	**2500**	**3200**	**1600**	**2000**	**2500**	**3200**
Selectivity limit (kA)													
iDPN, iDPNN		T	T	T	T	T	T	T	T	T	T	T	T
iC60N/H/L		T	T	T	T	T	T	T	T	T	T	T	T
C120N/H		T	T	T	T	T	T	T	T	T	T	T	T
NG125N/H		T	T	T	T	T	T	T	T	T	T	T	T
NG125L		40	40	40	40	40	40	40	40	40	40	40	40
NSXm E/B/F		T	T	T	T	T	T	T	T	T	T	T	T
NSXm N/H		40	40	40	40	40	40	40	40	40	40	40	40
Compact NSX B/F TM-D	**NSX100**	T	T	T	T	T	T	T	T	T	T	T	T
	NSX160	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX B/F Micrologic	**NSX100**	T	T	T	T	T	T	T	T	T	T	T	T
	NSX160	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX F	**NSX400**	T	T	T	T	T	T	T	T	T	T	T	T
	NSX630	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX N/H/S/L/R TM-D	**NSX100**	40	40	40	40	40	40	40	40	40	40	40	40
	NSX250	40	40	40	40	40	40	40	40	40	40	40	40
Compact NSX160 N/H/S/L TM-D		40	40	40	40	40	40	40	40	40	40	40	40
Compact NSX N/H/S/L/R Micrologic	**NSX100**	40	40	40	40	40	40	40	40	40	40	40	40
	NSX250	40	40	40	40	40	40	40	40	40	40	40	40
Compact NSX160 N/H/S/L Micrologic		40	40	40	40	40	40	40	40	40	40	40	40
Compact NSX N/H/S/L/R	**NSX400**	40	40	40	40	40	40	40	40	40	40	40	40
	NSX630	40	40	40	40	40	40	40	40	40	40	40	40
Compact NS N	**NS630b**	16	20	25	32	24	30	37.5	40	40	40	40	40
	NS800	16	20	25	32	24	30	37.5	40	40	40	40	40
	NS1000	16	20	25	32	24	30	37.5	40	40	40	40	40
	NS1250		20	25	32		30	37.5	40		40	40	40
	NS1600			25	32			37.5	40			40	40
Compact NS H	**NS630b**	16	20	25	32	24	30	37.5	40	40	40	40	40
	NS800	16	20	25	32	24	30	37.5	40	40	40	40	40
	NS1000	16	20	25	32	24	30	37.5	40	40	40	40	40
	NS1250		20	25	32		30	37.5	40		40	40	40
	NS1600			25	32			37.5	40			40	40
Compact NS N/H	**NS1600b**			25	32			37.5	40			40	40
	NS2000				32				40				40
	NS2500												
	NS3200												
Compact NS L/LB	**NS630bL/LB**	T	T	T	T	T	T	T	T	T	T	T	T
	NS800L/LB	T	T	T	T	T	T	T	T	T	T	T	T
	NS1000L	T	T	T	T	T	T	T	T	T	T	T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Compact NS630b-1000L, Compact NS630b-800LB Micrologic
Downstream: iDPN, iC60, C120, NG125, Compact NSXm, NSX100-630

Ue ⩽ 440 V AC

Upstream	Compact NS630b/800/1000L Compact NS630b/800LB														
Trip unit	Micrologic 2.0					Micrologic 5.0 - 6.0 - 7.0 Inst 15 In					Micrologic 5.0 - 6.0 - 7.0 Inst OFF				
Downstream	**Rating (A)**	**630**			**800**	**1000**	**630**			**800**	**1000**	**630**			**800**	**1000**
	Setting Ir	**250**	**400**	**630**	**800**	**1000**	**250**	**400**	**630**	**800**	**1000**	**250**	**400**	**630**	**800**	**1000**
Selectivity limit (kA)																
iDPN, iDPNN		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSXm E/B/F/N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX100 B/F/N/H/S/L/R TM-D		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F TM-D		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 N/H/S/L TM-D		36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
Compact NSX250 B/F/N/H/S/L/R TM-D	**⩽ 125**	20	20	20	T	T	20	20	20	T	T	20	20	20	T	T
	160	20	20	20	T	T	20	20	20	T	T	20	20	20	T	T
	200		20	20	T	T		20	20	T	T		20	20	T	T
	250		20	20	T	T		20	20	T	T		20	20	T	T
Compact NSX100 B/F/N/H/S/L/R Micrologic	**40**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F Micrologic	**40**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160	T	T	T	T	T	T	T	T	T	T		T	T	T	T
Compact NSX160 N/H/S/L Micrologic	**40**	36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
	100	36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
	160	36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
Compact NSX250 B/F/N/H/S/L/R Micrologic	**⩽ 100**	20	20	20	T	T	20	20	20	T	T	20	20	20	T	T
	160		20	20	T	T		20	20	T	T		20	20	T	T
	250		20	20	T	T		20	20	T	T		20	20	T	T
Compact NSX400 F/N/H/S/L/R Micrologic	**160**	6.3	6.3	6.3	10	15	6.3	6.3	6.3	10	15	6.3	6.3	6.3	10	15
	200		6.3	6.3	10	15		6.3	6.3	10	15		6.3	6.3	10	15
	250		6.3	6.3	10	15		6.3	6.3	10	15		6.3	6.3	10	15
	320		6.3	6.3	10	15			6.3	10	15			6.3	10	15
	400			6.3	10	15			6.3	10	15			6.3	10	15
Compact NSX630 F/N/H/S/L/R Micrologic	**250**		6.3	6.3	8	10		6.3	6.3	8	10		6.3	6.3	8	10
	320			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

— No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Compact NS630b-1000L, Compact NS630b-800LB Micrologic
Downstream: Compact NS630b-1000

Ue ⩽ 440 V AC

Upstream	Compact NS630b/800/1000L Compact NS630b/800LB														
Trip unit	Micrologic 2.0					Micrologic 5.0 - 6.0 - 7.0 Inst 15 In					Micrologic 5.0 - 6.0 - 7.0 Inst OFF				

Downstream	Rating (A)	630			800	1000	630			800	1000	630			800	1000
	Setting Ir	250	400	630	800	1000	250	400	630	800	1000	250	400	630	800	1000
Selectivity limit (kA)																
Compact NS630b N/H Micrologic	**250**		6.3	6.3	8	10		6.3	6.3	8	10		6.3	6.3	8	10
	320			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
Compact NS800 N/H Micrologic	**320**			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
	800															
Compact NS1000 N/H Micrologic	**400**			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
	800															
	1000															
Compact NS630b L/LB Micrologic	**250**		6.3	6.3	8	10		6.3	6.3	8	10		6.3	6.3	8	10
	320			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
Compact NS800 L/LB Micrologic	**320**			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
	800															
Compact NS1000 L Micrologic	**400**			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
	800															
	1000															

4 Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ1 06-16 H1/H2/H3 Micrologic X
Downstream: iDPN, iC60, C120, NG125, Compact NSXm, NSX100-630

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ1 06/08/10/12/16 H1/H2/H3		
Trip unit	Micrologic 2.0X Isd = 10Ir	Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard	Micrologic 5.0X - 6.0X - 7.0X Inst : OFF

Downstream	Rating (A)	630			800	1000	1250	1600	630			800	1000	1250	1600	630			800	1000	1250	1600
	Setting Ir	250	400	630	800	1000	1250	1600	250	400	630	800	1000	1250	1600	250	400	630	800	1000	1250	1600
Selectivity limit (kA)																						
iDPN, iDPNN		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSXm E/B/F/N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX100 B/F/N/H/S/L/R TM-D		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F/N/H/S/L TM-D		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX250 B/F/N/H/S/L/R TM-D	⩽ 125	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	200		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	250		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
Compact NSX100 B/F/N/H/S/L/R Micrologic	40	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F/N/H/S/L Micrologic	40	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX250 B/F/N/H/S/L/R Micrologic	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	250		T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T
Compact NSX400 F/N/H/S/L/R Micrologic	160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	200		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	250		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	320			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
	400			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
Compact NSX630 F/N/H/S/L/R Micrologic	250		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	320			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
	400			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
	500				T	T	T	T				T	T	T	T				T	T	T	T
	630					T	T	T					T	T	T					T	T	T

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ1 06-16 H1 Micrologic X
Downstream: Compact NS630b-1600 Micrologic A/E/P

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ1 06/08/10/12/16 H1																	
Trip unit	Micrologic 2.0X Isd = 10Ir						Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						Micrologic 5.0X - 6.0X - 7.0X Inst : OFF					
Downstream	**Rating (A)**	**630**		**800**	**1000**	**1250**	**1600**	**630**		**800**	**1000**	**1250**	**1600**	**630**		**800**	**1000**	**1250**	**1600**
	Setting Ir	**400**	**630**	**800**	**1000**	**1250**	**1600**	**400**	**630**	**800**	**1000**	**1250**	**1600**	**400**	**630**	**800**	**1000**	**1250**	**1600**
Selectivity limit (kA)																			
Compact NS630b N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18.7	24	T	T	T	T	T	T
	320		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	500			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24				T	T	T
Compact NS800 N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**320**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	500			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24			T	T	T	T
	800					12.5	16					18.7	24				T	T	T
Compact NS1000 N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**400**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	500			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24				T	T	T
	800					12.5	16					18.7	24					T	T
	1000						16						24						T
Compact NS1250 N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**500**			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24				T	T	T
	800					12.5	16					18.7	24					T	T
	1000						16						24						T
	1250																		
Compact NS1600 N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**630**				10	12.5	16				15	18.7	24				T	T	T
	800					12.5	16					18.7	24					T	T
	960						16						24						T
	1250																		
	1600																		
Compact NS630b L/LB Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**250**	4	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	400		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	500			8	T	T	T			T	T	T	T			T	T	T	T
	630				T	T	T				T	T	T				T	T	T
Compact NS800 L/LB Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**320**		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	400		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	500			8	10	T	T			T	T	T	T			T	T	T	T
	630				10	T	T				T	T	T				T	T	T
	800					12.5	T					T	T					T	T
Compact NS1000 L Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**400**		6.3	8	10	12.5	T		9.4	12	T	T	T		T	T	T	T	T
	500			8	10	12.5	T			12	T	T	T			T	T	T	T
	630				10	12.5	T				T	T	T				T	T	T
	800					12.5	T					T	T					T	T
	1000						T						T						T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ1 06-16 H1 Micrologic X
Downstream: Masterpact MTZ1 06-16

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ1 06/08/10/12/16 H1		
Trip unit	Micrologic 2.0X Isd = 10Ir	Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard	Micrologic 5.0X - 6.0X - 7.0X Inst : OFF

Downstream	Rating (A)	630		800	1000	1250	1600	630		800	1000	1250	1600	630		800	1000	1250	1600
	Setting Ir	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600
Selectivity limit (kA)																			
Masterpact MTZ1 06 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18.7	24	T	T	T	T	T	T
	320		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	500			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24				T	T	T
Masterpact MTZ1 08 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**320**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	500			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24			T	T	T	T
	800					12.5	16					18.7	24				T	T	T
Masterpact MTZ1 10 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**400**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	500			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24				T	T	T
	800					12.5	16					18.7	24					T	T
	1000						16						24						T
Masterpact MTZ1 12 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**500**			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24				T	T	T
	800					12.5	16					18.7	24					T	T
	1000						16						24						T
	1250																		
Masterpact MTZ1 16 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**630**				10	12.5	16				15	18.7	24				T	T	T
	800					12.5	16					18.7	24					T	T
	960						16						24						T
	1250																		
	1600																		
Masterpact MTZ1 06 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**250**	4	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	400		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	500			8	T	T	T			T	T	T	T			T	T	T	T
	630				T	T	T				T	T	T				T	T	T
Masterpact MTZ1 08 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**320**		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	400		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	500			8	10	T	T			T	T	T	T			T	T	T	T
	630				10	T	T				T	T	T				T	T	T
	800					T	T					T	T					T	T
Masterpact MTZ1 10 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**400**		6.3	8	10	12.5	T		9.4	12	T	T	T		T	T	T	T	T
	500			8	10	12.5	T			12	T	T	T			T	T	T	T
	630				10	12.5	T				T	T	T				T	T	T
	800					12.5	T					T	T					T	T
	1000						T						T						T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ1 06-16 H2 Micrologic X
Downstream: Compact NS630b-1600 Micrologic A/E/P

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ1 06/08/10/12/16 H2		
Trip unit	Micrologic 2.0X Isd = 10Ir	Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard	Micrologic 5.0X - 6.0X - 7.0X Inst : OFF

Downstream	Rating (A)	630		800	1000	1250	1600	630		800	1000	1250	1600	630		800	1000	1250	1600
	Setting Ir	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600
Selectivity limit (kA)																			
Compact NS630b N/H Micrologic 2.0 - 5.0 - 6.0 A/E/P/H	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18.7	24	42	42	42	42	42	42
	320		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	500			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24				42	42	42
Compact NS800 N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P/H	**320**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	500			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24			42	42	42	42
	800					12.5	16					18.7	24				42	42	42
Compact NS1000 N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P/H	**400**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	500			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24				42	42	42
	800					12.5	16					18.7	24					42	42
	1000						16						24						42
Compact NS1250 N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P/H	**500**			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24				42	42	42
	800					12.5	16					18.7	24					42	42
	1000						16						24						42
	1250																		
Compact NS1600 N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P/H	**630**				10	12.5	16				15	18.7	24				42	42	42
	800					12.5	16					18.7	24					42	42
	960						16						24						42
	1250																		
	1600																		
Compact NS630b L/LB Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P/H	**250**	4	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	400		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	500			8	T	T	T			T	T	T	T			T	T	T	T
	630				T	T	T				T	T	T				T	T	T
Compact NS800 L/LB Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P/H	**320**		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	400		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	500			8	10	T	T			T	T	T	T			T	T	T	T
	630				10	T	T				T	T	T				T	T	T
	800					T	T					T	T					T	T
Compact NS1000 L Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P/H	**400**		6.3	8	10	12.5	T		9.4	12	T	T	T		T	T	T	T	T
	500			8	10	12.5	T			12	T	T	T			T	T	T	T
	630				10	12.5	T				T	T	T				T	T	T
	800					12.5	T					T	T					T	T
	1000						T						T						T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ1 06-16 H2 Micrologic X
Downstream: Masterpact MTZ1 06-16

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ1 06/08/10/12/16 H2		
Trip unit	Micrologic 2.0X Isd = 10Ir	Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard	Micrologic 5.0X - 6.0X - 7.0X Inst : OFF

Downstream	Rating (A)	630		800	1000	1250	1600	630		800	1000	1250	1600	630		800	1000	1250	1600
	Setting Ir	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600
Selectivity limit (kA)																			
Masterpact MTZ1 06 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18.7	24	42	42	42	42	42	42
	320		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	500			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24				42	42	42
Masterpact MTZ1 08 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**320**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	500			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24			42	42	42	42
	800					12.5	16					18.7	24				42	42	42
Masterpact MTZ1 10 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**400**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	500			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24				42	42	42
	800					12.5	16					18.7	24					42	42
	1000						16						24						42
Masterpact MTZ1 12 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**500**			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24				42	42	42
	800					12.5	16					18.7	24					42	42
	1000						16						24						42
	1250																		
Masterpact MTZ1 16 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**630**				10	12.5	16				15	18.7	24				42	42	42
	800					12.5	16					18.7	24					42	42
	960						16						24						42
	1250																		
	1600																		
Masterpact MTZ1 06 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**250**	4	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	400		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	500			8	T	T	T			T	T	T	T			T	T	T	T
	630				T	T	T				T	T	T				T	T	T
Masterpact MTZ1 08 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**320**		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	400		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	500			8	10	T	T			T	T	T	T			T	T	T	T
	630				10	T	T				T	T	T				T	T	T
	800					T	T					T	T					T	T
Masterpact MTZ1 10 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**400**		6.3	8	10	12.5	T		9.4	12	T	T	T		T	T	T	T	T
	500			8	10	12.5	T			12	T	T	T			T	T	T	T
	630				10	12.5	T				T	T	T				T	T	T
	800					12.5	T					T	T					T	T
	1000						T						T						T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ1 06-16 H3 Micrologic X
Downstream: Compact NS630b-1600 Micrologic A/E/P

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ1 06/08/10/12/16 H3		
Trip unit	Micrologic 2.0X Isd = 10Ir	Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard	Micrologic 5.0X - 6.0X - 7.0X Inst : OFF

Downstream	Rating (A)	630		800	1000	1250	1600	630		800	1000	1250	1600	630		800	1000	1250	1600
	Setting Ir	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600
Selectivity limit (kA)																			
Compact NS630b N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18.7	24	50	50	50	50	50	50
	320		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	500			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24				50	50	50
Compact NS800 N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**320**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	500			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24			50	50	50	50
	800					12.5	16					18.7	24				50	50	50
Compact NS1000 N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**400**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	500			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24				50	50	50
	800					12.5	16					18.7	24					50	50
	1000						16						24						50
Compact NS1250 N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**500**			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24				50	50	50
	800					12.5	16					18.7	24					50	50
	1000						16						24						50
	1250																		
Compact NS1600 N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**630**				10	12.5	16				15	18.7	24				50	50	50
	800					12.5	16					18.7	24					50	50
	960						16						24						50
	1250																		
	1600																		
Compact NS630b L/LB Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**250**	4	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	400		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	500			8	T	T	T			T	T	T	T			T	T	T	T
	630				T	T	T				T	T	T				T	T	T
Compact NS800 L/LB Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**320**		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	400		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	500			8	10	T	T			T	T	T	T			T	T	T	T
	630				10	T	T				T	T	T				T	T	T
	800					T	T					T	T					T	T
Compact NS1000 L Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**400**		6.3	8	10	12.5	T		9.4	12	T	T	T		T	T	T	T	T
	500			8	10	12.5	T			12	T	T	T			T	T	T	T
	630				10	12.5	T				T	T	T				T	T	T
	800					12.5	T					T	T					T	T
	1000						T						T						T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ1 06-16 H3 Micrologic X
Downstream: Masterpact MTZ1 06-16

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ1 06/08/10/12/16 H3		
Trip unit	Micrologic 2.0X Isd = 10Ir	Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard	Micrologic 5.0X - 6.0X - 7.0X Inst : OFF

Downstream	Rating (A)	630		800	1000	1250	1600	630		800	1000	1250	1600	630		800	1000	1250	1600
	Setting Ir	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600
Selectivity limit (kA)																			
Masterpact MTZ1 06 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18.7	24	50	50	50	50	50	50
	320		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	500			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24				50	50	50
Masterpact MTZ1 08 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**320**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	500			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24			50	50	50	50
	800					12.5	16					18.7	24				50	50	50
Masterpact MTZ1 10 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**400**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	500			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24				50	50	50
	800					12.5	16					18.7	24					50	50
	1000						16						24						50
Masterpact MTZ1 12 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**500**			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24				50	50	50
	800					12.5	16					18.7	24					50	50
	1000						16						24						50
	1250																		
Masterpact MTZ1 16 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**630**				10	12.5	16				15	18.7	24				50	50	50
	800					12.5	16					18.7	24					50	50
	960						16						24						50
	1250																		
	1600																		
Masterpact MTZ1 06 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**250**	4	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	400		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	500			8	T	T	T			T	T	T	T			T	T	T	T
	630				T	T	T				T	T	T				T	T	T
Masterpact MTZ1 08 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**320**		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	400		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	500			8	10	T	T			T	T	T	T			T	T	T	T
	630				10	T	T				T	T	T				T	T	T
	800					T	T					T	T					T	T
Masterpact MTZ1 10 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**400**		6.3	8	10	12.5	T		9.4	12	T	T	T		T	T	T	T	T
	500			8	10	12.5	T			12	T	T	T			T	T	T	T
	630				10	12.5	T				T	T	T				T	T	T
	800					12.5	T					T	T					T	T
	1000						T						T						T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ1 06-10 L1 Micrologic X
Downstream: iDPN, iC60, C120, NG125, Compact NSXm, NSX100-630

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ1 06/08/10 L1		
Trip unit	Micrologic 2.0X Isd = 10Ir	Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard	Micrologic 5.0X - 6.0X - 7.0X Inst : OFF

Downstream	Rating (A)	630			800	1000	630			800	1000	630			800	1000
	Setting Ir	250	400	630	800	1000	250	400	630	800	1000	250	400	630	800	1000
Selectivity limit (kA)																
iDPN, iDPNN		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSXm E/B/F/N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX100 B/FN/H/S/L/R TM-D		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F TM-D		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 N/H/S/L TM-D		36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
Compact NSX250 B/F/N//H/S/L/R TM-D	**⩽ 125**	20	20	20	T	T	20	20	20	T	T	20	20	20	T	T
	160	20	20	20	T	T	20	20	20	T	T	20	20	20	T	T
	200		20	20	T	T		20	20	T	T		20	20	T	T
	250		20	20	T	T		20	20	T	T		20	20	T	T
Compact NSX100 B/F/N/H/S/L/R Micrologic	**40**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F Micrologic	**40**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160	T	T	T	T	T	T	T	T	T	T		T	T	T	T
Compact NSX160 N/H/S/L Micrologic	**40**	36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
	100	36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
	160	36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
Compact NSX250 B/F/N/H/S/L/R Micrologic	**⩽ 100**	20	20	20	T	T	20	20	20	T	T	20	20	20	T	T
	160		20	20	T	T		20	20	T	T		20	20	T	T
	250		20	20	T	T		20	20	T	T		20	20	T	T
Compact NSX400 F/N/H/S/L/R Micrologic	**160**	6.3	6.3	6.3	10	15	6.3	6.3	6.3	10	15	6.3	6.3	6.3	10	15
	200		6.3	6.3	10	15		6.3	6.3	10	15		6.3	6.3	10	15
	250		6.3	6.3	10	15		6.3	6.3	10	15		6.3	6.3	10	15
	320		6.3	6.3	10	15			6.3	10	15			6.3	10	15
	400			6.3	10	15			6.3	10	15			6.3	10	15
Compact NSX630 F/N/H/S/L/R Micrologic	**250**		6.3	6.3	8	10		6.3	6.3	8	10		6.3	6.3	8	10
	320			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ1 06-10 L1 Micrologic X
Downstream: Compact NS630b-1000, Masterpact MTZ1 06-10

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ1 06/08/10 L1														
Trip unit	Micrologic 2.0X Isd = 10Ir					Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard					Micrologic 5.0X - 6.0X - 7.0X Inst : OFF				

Downstream	Rating (A)	630			800	1000	630			800	1000	630			800	1000
	Setting Ir	250	400	630	800	1000	250	400	630	800	1000	250	400	630	800	1000
Selectivity limit (kA)																
Compact NS630b N/H/L/LB Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**250**		6.3	6.3	8	10		6.3	6.3	8	10		6.3	6.3	8	10
	320			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
Compact NS800 N/H/L/LB Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**320**			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
	800															
Compact NS1000 N/H/L Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**400**					10					10			6.3	10	10
	500					10					10				10	10
	630					10					10					10
	800															
	1000															
Masterpact MTZ1 06 H1/H2/H3/L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**250**		6.3	6.3	8	10		6.3	6.3	8	10		6.3	6.3	8	10
	320			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
Masterpact MTZ1 08 H1/H2/H3/L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**320**			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
	800															
Masterpact MTZ1 10 H1/H2/H3/L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**400**					10					10			6.3	10	10
	500					10					10				10	10
	630					10					10					10
	800															
	1000															

4 Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ2 08-20 N1/H1/H2/L1 Micrologic X
Downstream: iDPN, iC60, C120, NG125, Compact NSXm, NSX100-630

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ2 08/10/12/16/20 N1/H1/H2/L1		
Trip unit	Micrologic 2.0X Isd = 10Ir	Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard	Micrologic 5.0X - 6.0X - 7.0X Inst : OFF

Downstream	Rating (A)	800			1000	1250	1600	2000	800			1000	1250	1600	2000	800			1000	1250	1600	2000
	Setting Ir	320	630	800	1000	1250	1600	2000	320	630	800	1000	1250	1600	2000	320	630	800	1000	1250	1600	2000
Selectivity limit (kA)																						
iDPN, iDPNN		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSXm E/B/F/N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX100 B/F/N/H/S/L/R TM-D		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F/N/H/S/L TM-D		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX250 B/F/N/H/S/L/R TM-D	**⩽ 125**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	200	T	T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	250		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
Compact NSX100 B/F/N/H/S/L/R Micrologic	**40**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F/N/H/S/L Micrologic	**40**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX250 B/F/N/H/S/L/R Micrologic	**⩽ 100**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	250		T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T
Compact NSX400 F/N/H/S/L/R Micrologic	**160**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	200	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	250	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	400		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
Compact NSX630 F/N/H/S/L/R Micrologic	**250**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	400		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	500			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
	630				T	T	T	T				T	T	T	T				T	T	T	T

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ2 08-20 N1/H1/H2 Micrologic X
Downstream: Compact NS630b-1600 Micrologic A/E/P

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ2 08/10/12/16/20 N1/H1/H2																		
Trip unit	Micrologic 2.0X Isd = 10Ir							Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						Micrologic 5.0X - 6.0X - 7.0X Inst : OFF					

Downstream	Rating (A)	800		1000	1250	1600	2000	800		1000	1250	1600	2000	800		1000	1250	1600	2000
	Setting Ir	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000
Selectivity limit (kA)																			
Compact NS630bN/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**250**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	320	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
Compact NS800N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
Compact NS1000N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
Compact NS1250N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**500**		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
Compact NS1600N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**630**			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	960					16	20					24	30					T	T
	1250						20						30						T
	1600																		
Compact NS630bL/LB Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**250**	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	500		8	T	T	T	T		T	T	T	T	T		T	T	T	T	T
	630			T	T	T	T			T	T	T	T			T	T	T	T
Compact NS800 L/LB Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**320**	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	500		8	10	T	T	T		T	T	T	T	T		T	T	T	T	T
	630			10	T	T	T			T	T	T	T			T	T	T	T
	800				T	T	T				T	T	T				T	T	T
Compact NS1000L Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**400**	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	500		8	10	12.5	T	T		12	T	T	T	T		T	T	T	T	T
	630			10	12.5	T	T			T	T	T	T			T	T	T	T
	800				12.5	T	T				T	T	T				T	T	T
	1000					T	T					T	T					T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

— No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ2 08-20 N1/H1/H2 Micrologic X
Downstream: Masterpact MTZ1 06-16

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ2 08/10/12/16/20 N1/H1/H2																		
Trip unit	Micrologic 2.0X Isd = 10Ir							Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						Micrologic 5.0X - 6.0X - 7.0X Inst : OFF					
Downstream	**Rating (A)**	**800**		**1000**	**1250**	**1600**	**2000**	**800**		**1000**	**1250**	**1600**	**2000**	**800**		**1000**	**1250**	**1600**	**2000**
	Setting Ir	**630**	**800**	**1000**	**1250**	**1600**	**2000**	**630**	**800**	**1000**	**1250**	**1600**	**2000**	**630**	**800**	**1000**	**1250**	**1600**	**2000**
Selectivity limit (kA)																			
Masterpact MTZ1 06 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**250**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	320	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
Masterpact MTZ1 08 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
Masterpact MTZ1 10 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
Masterpact MTZ1 12 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**500**		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
Masterpact MTZ1 16 H1/H2/H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**630**			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	960					16	20					24	30					T	T
	1250						20						30						T
	1600																		
Masterpact MTZ1 06L Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**250**	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	500		8	T	T	T	T		T	T	T	T	T		T	T	T	T	T
	630			T	T	T	T			T	T	T	T			T	T	T	T
Masterpact MTZ1 08L Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**320**	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	500		8	10	T	T	T		T	T	T	T	T		T	T	T	T	T
	630			10	T	T	T			T	T	T	T			T	T	T	T
	800				T	T	T				T	T	T				T	T	T
Masterpact MTZ1 10L Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**400**	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	500		8	10	12.5	T	T		12	T	T	T	T		T	T	T	T	T
	630			10	12.5	T	T			T	T	T	T			T	T	T	T
	800				12.5	T	T				T	T	T				T	T	T
	1000					T	T					T	T					T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ2 08-20 N1/H1 Micrologic X
Downstream: Masterpact MTZ2 08-20

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Upstream	Masterpact MTZ2 08/10/12/16/20 N1/H1		
Trip unit	Micrologic 2.0X Isd = 10Ir	Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard	Micrologic 5.0X - 6.0X - 7.0X Inst : OFF

Downstream	Rating (A)	800		1000	1250	1600	2000	800		1000	1250	1600	2000	800		1000	1250	1600	2000
	Setting Ir	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000
Selectivity limit (kA)																			
Masterpact MTZ2 08 N1/H1/L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
Masterpact MTZ2 10 N1/H1/L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
Masterpact MTZ2 12 N1/H1/L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**500**		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
Masterpact MTZ2 16 N1/H1/L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**630**			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	960					16	20					24	30					T	T
	1250						20						30						T
	1600																		
Masterpact MTZ2 20 N1/H1/L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**800**				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
	1600																		
Masterpact MTZ2 08 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
Masterpact MTZ2 10 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
Masterpact MTZ2 12 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**500**		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
Masterpact MTZ2 16 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**630**			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	960					16	20					24	30					T	T
	1250						20						30						T
	1600																		
Masterpact MTZ2 20 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**800**				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
	1600																		

T	Total selectivity, up to the breaking capacity of the downstream circuit breaker.
4	Selectivity limit = 4 kA.
	No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ2 08-20 H2 Micrologic X
Downstream: Masterpact MTZ2 08-20

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ2 08/10/12/16/20 H2																		
Trip unit	Micrologic 2.0X Isd = 10Ir							Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						Micrologic 5.0X - 6.0X - 7.0X Inst : OFF					

Downstream	Rating (A)	800		1000	1250	1600	2000	800		1000	1250	1600	2000	800		1000	1250	1600	2000
	Setting Ir	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000
Selectivity limit (kA)																			
Masterpact MTZ2 08 N1/H1/L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
Masterpact MTZ2 10 N1/H1/L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
Masterpact MTZ2 12 N1/H1/L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**500**		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
Masterpact MTZ2 16 N1/H1/L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**630**			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	960					16	20					24	30					T	T
	1250						20						30						T
	1600																		
Masterpact MTZ2 20 N1/H1/L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**800**				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
	1600																		
Masterpact MTZ2 08 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	82	82	82	82	82	82
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	82	82	82	82	82	82
	500		8	10	12.5	16	20		12	15	18.75	24	30		82	82	82	82	82
	630			10	12.5	16	20			15	18.75	24	30			82	82	82	82
	800				12.5	16	20				18.75	24	30				82	82	82
Masterpact MTZ2 10 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	82	82	82	82	82	82
	500		8	10	12.5	16	20		12	15	18.75	24	30		82	82	82	82	82
	630			10	12.5	16	20			15	18.75	24	30			82	82	82	82
	800				12.5	16	20				18.75	24	30				82	82	82
	1000					16	20					24	30					82	82
Masterpact MTZ2 12 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**500**		8	10	12.5	16	20		12	15	18.75	24	30		82	82	82	82	82
	630			10	12.5	16	20			15	18.75	24	30			82	82	82	82
	800				12.5	16	20				18.75	24	30				82	82	82
	1000					16	20					24	30					82	82
	1250						20						30						82
Masterpact MTZ2 16 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**630**			10	12.5	16	20			15	18.75	24	30			82	82	82	82
	800				12.5	16	20				18.75	24	30				82	82	82
	960					16	20					24	30					82	82
	1250						20						30						82
	1600																		
Masterpact MTZ2 20 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**800**				12.5	16	20				18.75	24	30				82	82	82
	1000					16	20					24	30					82	82
	1250						20						30						82
	1600																		

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ2 08-20 L1 Micrologic X
Downstream: Masterpact MTZ1 06 - 16 Micrologic X

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Upstream	Masterpact MTZ2 08/10/12/16/20 L1		
Trip unit	Micrologic 2.0X Isd = 10Ir	Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard	Micrologic 5.0X - 6.0X - 7.0X Inst : OFF

Downstream	Rating (A)	800		1000	1250	1600	2000	800		1000	1250	1600	2000	800		1000	1250	1600	2000
	Setting Ir	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000
Selectivity limit (kA)																			
MTZ1 06 H1/H2/H3 Micrologic X	**250**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	320	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	500		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
MTZ1 08 H1/H2/H3 Micrologic X	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	500		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
MTZ1 10 H1/H2/H3 Micrologic X	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	500		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
	1000					16	20					24	30					37	37
MTZ1 12 H1/H2/H3 Micrologic X	**500**		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
	1000					16	20					24	30					37	37
	1250						20						30						37
MTZ1 16 H1/H2/H3 Micrologic X	**630**			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
	960					16	20					24	30					37	37
	1250						20						30						37
	1600																		
MTZ1 06 L1 Micrologic X	**250**	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	500		8	10	T	T	T		T	T	T	T	T		T	T	T	T	T
	630			10	T	T	T			T	T	T	T			T	T	T	T
MTZ1 08 L1 Micrologic X	**320**	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	500		8	10	12.5	T	T		12	T	T	T	T		T	T	T	T	T
	630			10	12.5	T	T			T	T	T	T			T	T	T	T
	800				12.5	T	T				T	T	T				T	T	T
MTZ1 10 L1 Micrologic X	**400**	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	500		8	10	12.5	T	T		12	T	T	T	T		T	T	T	T	T
	630			10	12.5	T	T			T	T	T	T			T	T	T	T
	800				12.5	T	T				T	T	T				T	T	T
	1000					T	T					T	T					T	T

T	Total selectivity, up to the breaking capacity of the downstream circuit breaker.
4	Selectivity limit = 4 kA.
	No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ2 08-20 L1 Micrologic X
Downstream: Compact NS630b-1600 Micrologic A/E/P

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Upstream	Masterpact MTZ2 08/10/12/16/20 L1																	
Trip unit	Micrologic 2.0X Isd = 10Ir						Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						Micrologic 5.0X - 6.0X - 7.0X Inst : OFF					

Downstream	Rating (A)	800		1000	1250	1600	2000	800		1000	1250	1600	2000	800		1000	1250	1600	2000
	Setting Ir	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000
Selectivity limit (kA)																			
Compact NS630bN/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**250**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	320	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	500		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
Compact NS800N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	500		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
Compact NS1000N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	500		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
	1000					16	20					24	30					37	37
Compact NS1250N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**500**		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
	1000					16	20					24	30					37	37
	1250						20						30						37
Compact NS1600N/H Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**630**			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
	960					16	20					24	30					37	37
	1250						20						30						37
	1600																		
Compact NS630bL/LB Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**250**	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	500		8	10	T	T	T		T	T	T	T	T		T	T	T	T	T
	630			10	T	T	T			T	T	T	T			T	T	T	T
Compact NS800L/LB Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**320**	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	500		8	10	12.5	T	T		12	T	T	T	T		T	T	T	T	T
	630			10	12.5	T	T			T	T	T	T			T	T	T	T
	800				12.5	T	T				T	T	T				T	T	T
Compact NS1000L Micrologic 2.0 - 5.0 - 6.0 - 7.0 A/E/P	**400**	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	500		8	10	12.5	T	T		12	T	T	T	T		T	T	T	T	T
	630			10	12.5	T	T			T	T	T	T			T	T	T	T
	800				12.5	T	T				T	T	T				T	T	T
	1000					T	T					T	T					T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ2 25-40 H1/H2, MTZ3 40-63 H1 Micrologic X
Downstream: iDPN, iC60, C120, NG125, Compact NSXm, NSX100-630, NS630b-3200

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Upstream	Masterpact MTZ2 25/32/40 H1/H2	Masterpact MTZ3 40/50/63 H1	Masterpact MTZ2 25/32/40 H1/H2	Masterpact MTZ3 40/50/63 H1	Masterpact MTZ2 25/32/40 H1/H2	Masterpact MTZ3 40/50/63 H1
Trip unit	Micrologic 2.0X Isd = 10Ir		Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard		Micrologic 5.0X - 6.0X - 7.0X Inst : OFF	

Downstream	Rating (A)	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300
Selectivity limit (kA)																			
iDPN, iDPNN		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125N/H/L		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSXm E/B/F/N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX B/F/H/N/S/L/R TM-D	NSX100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F/H/N/S/L TM-D		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX B/F/H/N/S/L/R Micrologic	NSX100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
F/H/N/S/L/R Micrologic	NSX400	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NSX630	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F/H/N/S/L Micrologic		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NS N Micrologic	NS630b	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	NS800	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	NS1000	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	NS1250	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	NS1600	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
Compact NS H Micrologic	NS630b	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	NS800	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	NS1000	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	NS1250	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	NS1600	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
Compact NS N Micrologic	NS1600b	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	NS2000	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	NS2500	25 (1)	32	40	40	50	63	37,5 (1)	48	60	60	T	T	T (1)	T	T	T	T	T
	NS3200		32 (1)	40	40	50	63		48 (1)	60	60	T	T		T (1)	T	T	T	T
Compact NS H Micrologic	NS1600b	25	32	40	40	50	63	37,5	48	60	60	75	T	T	T	T	T	T	T
	NS2000	25	32	40	40	50	63	37,5	48	60	60	75	T	T	T	T	T	T	T
	NS2500	25 (1)	32	40	40	50	63	37,5 (1)	48	60	60	75	T	T (1)	T	T	T	T	T
	NS3200		32 (1)	40	40	50	63		48 (1)	60	60	75	T		T (1)	T	T	T	T
Compact NS L Micrologic	NS630b	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NS800	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NS1000	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NS LB Micrologic	NS630b	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NS800	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T

(1) With Ir upstream > 1,3 Ir downstream.

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

— No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ2 25-40 H1 Micrologic X
Downstream: Masterpact MTZ1 06-16, Masterpact MTZ2 08-20

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Upstream	Masterpact MTZ2 25/32/40 H1								
Trip unit	Micrologic 2.0X Isd = 10Ir			Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard			Micrologic 5.0X - 6.0X - 7.0X Inst : OFF		
Downstream	**Rating (kA)**	**2500**	**3200**	**4000**	**2500**	**3200**	**4000**	**2500**	**3200**	**4000**
Selectivity limit (A)										
Masterpact MTZ1 H1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ1 06**	25	32	40	37.5	T	T	T	T	T
	MTZ1 08	25	32	40	37.5	T	T	T	T	T
	MTZ1 10	25	32	40	37.5	T	T	T	T	T
	MTZ1 12	25	32	40	37.5	T	T	T	T	T
	MTZ1 16	25	32	40	37.5	T	T	T	T	T
Masterpact MTZ1 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ1 06**	25	32	40	37.5	48	T	T	T	T
	MTZ1 08	25	32	40	37.5	48	T	T	T	T
	MTZ1 10	25	32	40	37.5	48	T	T	T	T
	MTZ1 12	25	32	40	37.5	48	T	T	T	T
	MTZ1 16	25	32	40	37.5	48	T	T	T	T
Masterpact MTZ1 H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ1 06**	25	32	40	37.5	48	60	T	T	T
	MTZ1 08	25	32	40	37.5	48	60	T	T	T
	MTZ1 10	25	32	40	37.5	48	60	T	T	T
	MTZ1 12	25	32	40	37.5	48	60	T	T	T
	MTZ1 16	25	32	40	37.5	48	60	T	T	T
Masterpact MTZ2 N1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 08**	25	32	40	37.5	T	T	T	T	T
	MTZ2 10	25	32	40	37.5	T	T	T	T	T
	MTZ2 12	25	32	40	37.5	T	T	T	T	T
	MTZ2 16	25	32	40	37.5	T	T	T	T	T
Masterpact MTZ2 H1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 08**	25	32	40	37.5	48	60	T	T	T
	MTZ2 10	25	32	40	37.5	48	60	T	T	T
	MTZ2 12	25	32	40	37.5	48	60	T	T	T
	MTZ2 16	25	32	40	37.5	48	60	T	T	T
	MTZ2 20	25	32	40	37.5	48	60	T	T	T
	MTZ2 25	25 (1)	32	40	37,5 (1)	48	60	T (1)	T	T
	MTZ2 32		32 (1)	40		48 (1)	60		T (1)	T
Masterpact MTZ2 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 08**	25	32	40	37,5	48	60	T	T	T
	MTZ2 10	25	32	40	37,5	48	60	T	T	T
	MTZ2 12	25	32	40	37,5	48	60	T	T	T
	MTZ2 16	25	32	40	37,5	48	60	T	T	T
	MTZ2 20	25	32	40	37,5	48	60	T	T	T
	MTZ2 25	25 (1)	32	40	37,5 (1)	48	60	T (1)	T	T
	MTZ2 32		32 (1)	40		48 (1)	60		T (1)	T
Masterpact MTZ2 H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 20**	25	32	40	37,5	48	60	T	T	T
	MTZ2 25	25 (1)	32	40	37,5 (1)	48	60	T (1)	T	T
	MTZ2 32		32 (1)	40		48 (1)	60		T (1)	T
Masterpact MTZ1 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ1 06**	T	T	T	T	T	T	T	T	T
	MTZ1 08	T	T	T	T	T	T	T	T	T
	MTZ1 10	T	T	T	T	T	T	T	T	T
Masterpact MTZ2 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 08**	25	32	40	37.5	48	60	T	T	T
	MTZ2 10	25	32	40	37.5	48	60	T	T	T
	MTZ2 12	25	32	40	37.5	48	60	T	T	T
	MTZ2 16	25	32	40	37.5	48	60	T	T	T
	MTZ2 20	25	32	40	37.5	48	60	T	T	T

(1) With Ir upstream > 1,3 Ir downstream.

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ2 20/25/32/40 H2, MTZ3 40/50/63 H1 Micrologic X
Downstream: Masterpact MTZ1 06-16, MTZ2 08-40, MTZ3 40/50

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Upstream	Masterpact MTZ2 20/25/32/40 H2	Masterpact MTZ3 40/50/63 H1	Masterpact MTZ2 20/25/32/40 H2	Masterpact MTZ3 40/50/63 H1	Masterpact MTZ2 20/25/32/40 H2	Masterpact MTZ3 40/50/63 H1
Trip unit	Micrologic 2.0X Isd = 10Ir		Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard		Micrologic 5.0X - 6.0X - 7.0X Inst : OFF	

Downstream	Rating (A)	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300
Selectivity limit (kA)																			
Masterpact MTZ1 H1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ1 06**	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 12	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 16	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
Masterpact MTZ1 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ1 06**	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	MTZ1 12	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	MTZ1 16	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
Masterpact MTZ1 H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ1 06**	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ1 08	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ1 10	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ1 12	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ1 16	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
Masterpact MTZ2 N1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 08**	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 10	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 12	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 16	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
Masterpact MTZ2 H1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 08**	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 10	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 12	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 16	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 20	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 25	25 (1)	32	40	40	50	63	37,5 (1)	48	60	60	T	T	T (1)	T	T	T	T	T
	MTZ2 32		32 (1)	40	40	50	63		48 (1)	60	60	T	T		T (1)	T	T	T	T
	MTZ2 40			40 (1)	40 (1)	50	63			60 (1)	60	T	T			T (1)	T (1)	T	T
Masterpact MTZ2 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 08**	25	32	40	40	50	63	37,5	48	60	60	75	94	82	82	82	T	T	T
	MTZ2 10	25	32	40	40	50	63	37,5	48	60	60	75	94	82	82	82	T	T	T
	MTZ2 12	25	32	40	40	50	63	37,5	48	60	60	75	94	82	82	82	T	T	T
	MTZ2 16	25	32	40	40	50	63	37,5	48	60	60	75	94	82	82	82	T	T	T
	MTZ2 20	25	32	40	40	50	63	37,5	48	60	60	75	94	82	82	82	T	T	T
	MTZ2 25	25 (1)	32	40	40	50	63	37,5 (1)	48	60	60	75	94	82 (1)	82	82	T	T	T
	MTZ2 32		32 (1)	40	40	50	63		48 (1)	60	60	75	94		82 (1)	82	T	T	T
	MTZ2 40			40 (1)	40 (1)	50	63			60 (1)	60	75	94			82 (1)	T (1)	T	T
Masterpact MTZ3 H1	**MTZ3 40**			40 (1)	40 (1)	50	63			60 (1)	60 (1)	75	94			T (1)	T (1)	T	T
	MTZ3 50					50 (1)	63					75 (1)	94					T (1)	T
Masterpact MTZ2 H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 20**	25	32	40	40	50	63	37,5	48	60	60	75	94	82	82	82	T	T	T
	MTZ2 25	25 (1)	32	40	40	50	63	37,5 (1)	48	60	60	75	94	82 (1)	82	82	T	T	T
	MTZ2 32		32 (1)	40	40	50	63		48 (1)	60	60	75	94		82 (1)	82	T	T	T
	MTZ2 40			40 (1)	40 (1)	50	63			60 (1)		75	94			82 (1)	T (1)	T	T
Masterpact MTZ3 H2	**MTZ3 40**				40 (1)	50	63			60 (1)	60 (1)	75	94			T (1)	T (1)	T	T
	MTZ3 50					50 (1)	63					75 (1)	94					T (1)	T
Masterpact MTZ1 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ1 06**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Masterpact MTZ2 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 08**	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 10	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 12	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 16	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 20	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T

(1) With Ir upstream > 1,3 Ir downstream.

T	Total selectivity, up to the breaking capacity of the downstream circuit breaker.
4	Selectivity limit = 4 kA.
	No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ2 20/25/32/40 H3, MTZ3 40/50/63 H2 Micrologic X
Downstream: iDPN, iC60, C120, NG125, Compact NSXm, NSX100-630, NS630b-3200

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Upstream	Masterpact MTZ2 20/25/32/40 H3	Masterpact MTZ3 40/50/63 H2	Masterpact MTZ2 20/25/32/40 H3	Masterpact MTZ3 40/50/63 H2	Masterpact MTZ2 20/25/32/40 H3	Masterpact MTZ3 40/50/63 H2
Trip unit	Micrologic 2.0X Isd = 10Ir		Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard		Micrologic 5.0X - 6.0X - 7.0X Inst : OFF	

Downstream	Rating (A)	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300
Selectivity limit (kA)																						
iDPN, iDPNN		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125N/H/L		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSXm E/B/F/N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact B/F/H/N/S/L/R TM-D	**NSX100**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F/H/N/S/L TM-D		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact B/F/H/N/S/L/R Micrologic	**NSX100**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact NSX160 B/F/H/N/S/L Micrologic		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact F/H/N/S/L/R	**NSX400**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NSX630	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact N Micrologic	**NS630b**	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	NS800	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	NS1000	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	NS1250	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	NS1600	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
Compact H Micrologic	**NS630b**	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	65	65	65	65	T	T	T
	NS800	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	65	65	65	65	T	T	T
	NS1000	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	65	65	65	65	T	T	T
	NS1250	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	65	65	65	65	T	T	T
	NS1600	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	65	65	65	65	T	T	T
Compact N Micrologic	**NS1600b**	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	65	65	65	65	T	T	T
	NS2000	20 (1)	25	32	40	40	50	63	30 (1)	37,5	48	60	60	T	T	65 (1)	65	65	65	T	T	T
	NS2500		25 (1)	32	40	40	50	63		37,5 (1)	48	60	60	T	T		65 (1)	65	65	T	T	T
	NS3200			32 (1)	40	40	50	63			48 (1)	60	60	T	T			65 (1)	65	T	T	T
Compact H Micrologic	**NS1600b**	20	25	32	40	40	50	63	30	37,5	48	60	60	75	T	65	65	65	65	T	T	T
	NS2000	20 (1)	25	32	40	40	50	63	30 (1)	37,5	48	60	60	75	T	65 (1)	65	65	65	T	T	T
	NS2500		25 (1)	32	40	40	50	63		37,5 (1)	48	60	60	75	T		65 (1)	65	65	T	T	T
	NS3200			32 (1)	40	40	50	63			48 (1)	60	60	75	T			65 (1)	65	T	T	T
Compact L Micrologic	**NS630b**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NS800	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NS1000	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Compact LB Micrologic	**NS630b**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NS800	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T

(1) With Ir upstream > 1,3 Ir downstream.

T	Total selectivity, up to the breaking capacity of the downstream circuit breaker.
4	Selectivity limit = 4 kA.
	No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Masterpact MTZ2 20/25/32/40 H3, MTZ3 40/50/63 H2 Micrologic X
Downstream: Masterpact MTZ1 06-16, MTZ2 08-40 and MTZ3 40/50

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Upstream	Masterpact MTZ2 20/25/32/40 H3	Masterpact MTZ3 40/50/63 H2	Masterpact MTZ2 20/25/32/40 H3	Masterpact MTZ3 40/50/63 H2	Masterpact MTZ2 20/25/32/40 H3	Masterpact MTZ3 40/50/63 H2
Trip unit	Micrologic 2.0X Isd = 10Ir		Micrologic 5.0X - 6.0X - 7.0X Inst : 15 In Standard		Micrologic 5.0X - 6.0X - 7.0X Inst : OFF	

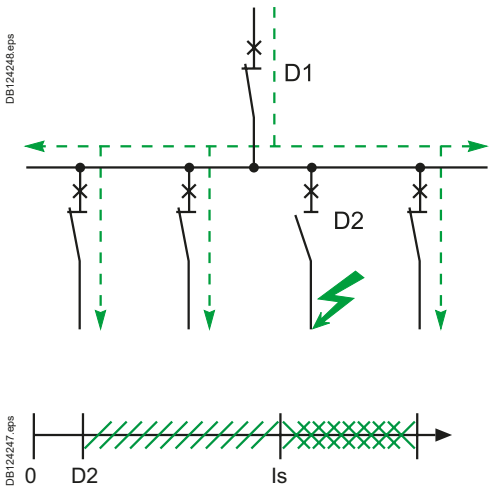
Downstream	Rating (A)	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300
Selectivity limit (kA)																						
Masterpact MTZ1 H1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ1 06**	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 12	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 16	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
Masterpact MTZ1 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ1 06**	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 12	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 16	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
Masterpact MTZ1 H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ1 06**	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ1 08	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ1 10	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ1 12	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ1 16	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
Masterpact MTZ2 N1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 08**	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 10	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 12	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 16	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
Masterpact MTZ2 H1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 08**	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ2 10	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ2 12	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ2 16	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ2 20	20 (1)	25	32	40	40	50	63	30 (1)	37,5	48	60	60	T	T	T (1)	T	T	T	T	T	T
	MTZ2 25		25 (1)	32	40	40	50	63		37,5 (1)	48	60	60	T	T		T (1)	T	T	T	T	T
	MTZ2 32			32 (1)	40	40	50	63			48 (1)	60	60	T	T			T (1)	T	T	T	T
	MTZ2 40				40 (1)	40 (1)	50	63				60 (1)	60	T	T				T (1)	T (1)	T	T
Masterpact MTZ2 H2 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 08**	20	25	32	40	40	50	63	30	37,5	48	60	60	75	94	65	65	65	65	T	T	T
	MTZ2 10	20	25	32	40	40	50	63	30	37,5	48	60	60	75	94	65	65	65	65	T	T	T
	MTZ2 12	20	25	32	40	40	50	63	30	37,5	48	60	60	75	94	65	65	65	65	T	T	T
	MTZ2 16	20	25	32	40	40	50	63	30	37,5	48	60	60	75	94	65	65	65	65	T	T	T
	MTZ2 20	20 (1)	25	32	40	40	50	63	30 (1)	37,5	48	60	60	75	94	65 (1)	65	65	65	T	T	T
	MTZ2 25		25 (1)	32	40	40	50	63		37,5 (1)	48	60	60	75	94		65 (1)	65	65	T	T	T
	MTZ2 32			32 (1)	40	40	50	63			48 (1)	60	60	75	94			65 (1)	65	T	T	T
	MTZ2 40				40 (1)	40 (1)	50	63				60 (1)	60	75	94				65 (1)	T (1)	T	T
Masterpact MTZ3 H1	**MTZ3 40**				40 (1)	40 (1)	50	63				60 (1)	75	94	94				65 (1)	T (1)	T	T
	MTZ3 50						50 (1)	63					75 (1)	94	94						T (1)	T
Masterpact MTZ2 H3 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 20**	20 (1)	25	32	40	40	50	63	30 (1)	37,5	48	60	60	75	94	65 (1)	65	65	65	120	120	120
	MTZ2 25		25 (1)	32	40	40	50	63		37,5 (1)	48	60	60	75	94		65 (1)	65	65	120	120	120
	MTZ2 32			32 (1)	40	40	50	63			48 (1)	60	60	75	94			65 (1)	65	120	120	120
	MTZ2 40				40 (1)	40 (1)	50	63				60 (1)	60	75	94				65 (1)	120 (1)	120	120
Masterpact MTZ3 H2	**MTZ3 40**				40 (1)	40 (1)	50	63				60 (1)	75	75	94				65 (1)	120 (1)	120	120
	MTZ3 50						50 (1)	63					75 (1)		94						120 (1)	120
Masterpact MTZ1 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ1 06**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Masterpact MTZ2 L1 Micrologic 2.0 - 5.0 - 6.0 - 7.0 X	**MTZ2 08**	20	25	32	40	40	50	63	30	37.5	48	60	60	75	94	100	100	100	100	T	T	T
	MTZ2 10	20	25	32	40	40	50	63	30	37.5	48	60	60	75	94	100	100	100	100	T	T	T
	MTZ2 12	20	25	32	40	40	50	63	30	37.5	48	60	60	75	94	100	100	100	100	T	T	T
	MTZ2 16	20	25	32	40	40	50	63	30	37.5	48	60	60	75	94	100	100	100	100	T	T	T
	MTZ2 20	20	25	32	40	40	50	63		37.5	48	60	60	75	94		100	100	100	T	T	T

(1) With Ir upstream > 1,3 Ir downstream.

T	Total selectivity, up to the breaking capacity of the downstream circuit breaker.
4	Selectivity limit = 4 kA.
	No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity tables for direct current application



Continuity of service

Selectivity is a key element that must be taken into account right from the design stage of a low-voltage installation to allow continuity of service of the electrical power.

Selectivity involves coordination between two circuit breakers connected in series, so that in the event of a fault, only the circuit breaker positioned immediately upstream of the fault trips. A selectivity current Is is defined as:
- I fault < Is: only D2 removes the fault, selectivity ensured,
- I fault > Is: both circuit breakers may trip, selectivity not ensured.

Selectivity may be partial or total, up to the breaking capacity of the downstream circuit breaker.
- **Total**: up to the breaking capacity of the downstream device.
- **Partial**: indication of the selectivity limit current Is. Selectivity is ensured below this value; above this value, the upstream device participates in the breaking process.
- **None**: no selectivity ensured, the upstream and downstream circuit breakers will trip.

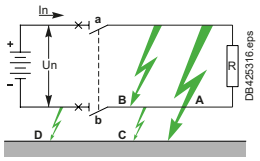
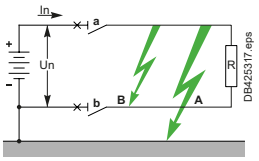
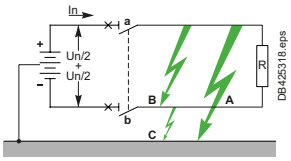
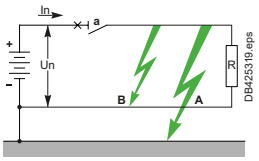
How to use the tables:

In the following pages are provided selectivity tables for the following system:
- 24-48 60 Vdc
- 110-125 Vdc
- 220-250 Vdc

With time constant from 1.5 to 25 ms

Suitability of circuit breakers according to voltage and earthing system shall be checked before using these tables. Selection of devices in DC can be challenging due to the diversity of voltage levels and earthing system. See product catalog or guides for DC application.

In this document we will consider the following cases:

IT	TN		
Isolated from earth + and - conductors protected and disconnected	- (or +) earthed '+ and - conductors protected and disconnected	Midpoint earthed (not distributed) + and – conductors protected and disconnected	- (or +) earthed '+ (or -) conductors protected and disconnected
			
Case 1	Case 2	Case 3	Case 4

For one given voltage the selectivity table is applicable for Case 1, Case 2, Case 3, Case 4 with this voltage between + and – for all types of fault. (In IT, Case 1, circuit breaker will not trip during first fault to earth)
For one given voltage selectivity limits in the table can also apply to system with higher voltage (up to 2 times) for all type of fault in Case 3 and for + to – fault only (Fault "B") in Case 1 if the same circuit breakers with same number of poles can be used at this higher voltage.

Selectivity table

Upstream: iC60 curve B
Downstream: iC60 curves B, C, D, C60H-DC curve C

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			iC60N/H/L, 1P or 2P [1]										
			Curve B										
In (A)			3	4	6	10	16	20	25	32	40	50	63
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
iC60N/H/L 1P or 2P [1]	**B**	⩽ 1		T	T	T	T	T	T	T	T	T	T
		2				T	T	T	T	T	T	T	T
		3				150	1200	T	T	T	T	T	T
		4						500	900	T	T	T	T
		6							300	700	1000	1800	4000
		10								400	500	800	1000
		⩾ 16											
	C	⩽ 1		T	T	T	T	T	T	T	T	T	T
		2				T	T	T	T	T	T	T	T
		3				150	1200	T	T	T	T	T	T
		4						400	900	T	T	T	T
		6							300	700	1000	1800	3000
		10								300	500	700	800
		⩾ 16											
	D	⩽ 1			T	T	T	T	T	T	T	T	T
		2				1600	T	T	T	T	T	T	T
		3					900	11000	T	T	T	T	T
		4							700	T	T	T	T
		6								500	800	1800	3000
		10									400	600	800
		⩾ 16											
C60H-DC 1P or 2P [1]	**C**	⩽ 1		T	T	T	T	T	T	T	T	T	T
		2				T	T	T	T	T	T	T	T
		3				150	1200	T	T	T	T	T	T
		4						400	900	T	T	T	T
		6							300	700	1000	1800	3000
		10								300	500	700	800
		⩾ 16											

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).

[2] According to the voltage and number of pole used, the breaking capacity can changed. Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 3 and Case 4 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

T : Total selectivity.

700 : Selectivity limit = 700 A

: No selectivity.

Selectivity table

Upstream: iC60 curve C
Downstream: iC60 curves B, C, D, C60H-DC curve C

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			iC60N/H/L, 1P or 2P [1]										
			Curve C										
In (A)			3	4	6	10	16	20	25	32	40	50	63
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
iC60N/H/L 1P or 2P [1]	**B**	⩽ 1	T	T	T	T	T	T	T	T	T	T	T
		2			700	T	T	T	T	T	T	T	T
		3				900	T	T	T	T	T	T	T
		4					900	8000	T	T	T	T	T
		6							900	1800	3200	T	T
		10								700	800	1500	2000
		16										1000	1200
		⩾ 20											
	C	⩽ 1	T	T	T	T	T	T	T	T	T	T	T
		2			500	T	T	T	T	T	T	T	T
		3				900	T	T	T	T	T	T	T
		4					900	6700	T	T	T	T	T
		6							700	1400	3200	T	T
		10								700	800	1500	2000
		16										1000	1200
		⩾ 20											
	D	⩽ 1	T	T	T	T	T	T	T	T	T	T	T
		2			350	T	T	T	T	T	T	T	T
		3				700	T	T	T	T	T	T	T
		4					700	4000	T	T	T	T	T
		6							700	1400	3200	T	T
		10								500	800	1500	1800
		16										1000	1200
		⩾ 20											
C60H-DC 1P or 2P [1]	**C**	⩽ 1	T	T	T	T	T	T	T	T	T	T	T
		2			500	T	T	T	T	T	T	T	T
		3				900	T	T	T	T	T	T	T
		4					900	6700	T	T	T	T	T
		6							700	1400	3200	T	T
		10								700	800	1500	2000
		16										1000	1200
		⩾ 20											

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).

[2] According to the voltage and number of pole used, the breaking capacity can changed. Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 3 and Case 4 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

T : Total selectivity.

700 : Selectivity limit = 700 A

: No selectivity.

Selectivity table

Upstream: iC60 curve D
Downstream: iC60 curves B, C, D, C60H-DC curve C

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			iC60N/H/L, 1P or 2P [1]										
			Curve D										
In (A)			3	4	6	10	16	20	25	32	40	50	63
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
iC60N/H/L 1P or 2P [1]	**B**	≤ 1	T	T	T	T	T	T	T	T	T	T	T
		2		1500	T	T	T	T	T	T	T	T	T
		3			400	T	T	T	T	T	T	T	T
		4				700	T	T	T	T	T	T	T
		6					700	1000	2500	T	T	T	T
		10							700	1400	1600	3600	9000
		16								900	1000	1900	2700
		≥ 20											
	C	≤ 1	T	T	T	T	T	T	T	T	T	T	T
		2		1000	T	T	T	T	T	T	T	T	T
		3			350	T	T	T	T	T	T	T	T
		4				700	T	T	T	T	T	T	T
		6					700	1000	2000	T	T	T	T
		10							700	1400	1600	3600	9000
		16								900	1000	1500	2100
		≥ 20											
	D	≤ 1	T	T	T	T	T	T	T	T	T	T	T
		2		700	T	T	T	T	T	T	T	T	T
		3			350	T	T	T	T	T	T	T	T
		4				700	T	T	T	T	T	T	T
		6					700	1000	2000	T	T	T	T
		10							700	1400	1600	3600	7400
		16								900	1000	1500	2100
		≥ 20											
C60H-DC 1P or 2P [1]	**C**	≤ 1	T	T	T	T	T	T	T	T	T	T	T
		2		1000	T	T	T	T	T	T	T	T	T
		3			350	T	T	T	T	T	T	T	T
		4				700	T	T	T	T	T	T	T
		6					700	1000	2000	T	T	T	T
		10							700	1400	1600	3600	9000
		16								900	1000	1500	2100
		≥ 20											

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).

[2] According to the voltage and number of pole used, the breaking capacity can changed. Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 3 and Case 4 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

T : Total selectivity.

700 : Selectivity limit = 700 A

: No selectivity.

Selectivity table

Upstream: C60H-DC curve C
Downstream: iC60 curves B, C, D, C60H-DC curve C

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			C60H-DC, 1P or 2P [1]										
			Curve C										
In (A)			3	4	6	10	16	20	25	32	40	50	63
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
iC60N/H/L 1P or 2P [1]	**B**	⩽ 1		T	T	T	T	T	T	T	T	T	T
		2			150	T	T	T	T	T	T	T	T
		3				300	1200	T	T	T	T	T	T
		4					500	800	1500	T	T	T	T
		6						370	450	900	1600	3600	7300
		10								400	800	1200	1800
		⩾ 16											
	C	⩽ 1		T	T	T	T	T	T	T	T	T	T
		2			150	T	T	T	T	T	T	T	T
		3				300	1200	T	T	T	T	T	T
		4					400	600	1500	T	T	T	T
		6						300	450	900	1600	3600	6000
		10								400	800	1200	1450
		⩾ 16											
	D	⩽ 1		T	T	T	T	T	T	T	T	T	T
		2			150	T	T	T	T	T	T	T	T
		3				200	900	T	T	T	T	T	T
		4					400	600	1500	T	T	T	T
		6						300	450	900	1600	3600	6000
		10								400	700	1200	1450
		⩾ 16											
C60H-DC 1P or 2P [1]	**C**	⩽ 1		T	T	T	T	T	T	T	T	T	T
		2			150	T	T	T	T	T	T	T	T
		3				300	1200	T	T	T	T	T	T
		4					500	800	1500	T	T	T	T
		6						370	450	900	1600	3600	7300
		10								400	800	1200	1800
		⩾ 16											

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).

[2] According to the voltage and number of pole used, the breaking capacity can changed. Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 3 and Case 4 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

T : Total selectivity.

700 : Selectivity limit = 700 A

: No selectivity.

Selectivity table

Upstream: C120, NG125 curve B
Downstream: iC60 curves B, C, D, C60H-DC curve C

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			C120N/H/L, NG125N/H/L, 1P or 2P [1]										
			Curve B										
In (A)			10	16	20	25	32	40	50	63	80	100	125
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A)** [2]										
iC60N/H/L 1P or 2P [1]	**B**	⩽ 2	T	T	T	T	T	T	T	T	T	T	T
		3	150	T	T	T	T	T	T	T	T	T	T
		4		300	500	1000	1250	T	T	T	T	T	T
		6			300	500	600	1800	2000	5500	T	T	T
		10						700	700	1900	5000	9500	T
		16									2000	3500	8500
		20										2000	4200
		⩾ 25											
	C	⩽ 2	T	T	T	T	T	T	T	T	T	T	T
		3	120	T	T	T	T	T	T	T	T	T	T
		4		250	900	1100	1300	T	T	T	T	T	T
		6				500	500	1400	2000	4500	T	T	T
		10						500	600	1500	5000	9000	T
		16									1800	3000	7000
		20										2000	3500
		⩾ 25											
	D	⩽ 1	T	T	T	T	T	T	T	T	T	T	T
		2	5000	T	T	T	T	T	T	T	T	T	T
		3		600	T	T	T	T	T	T	T	T	T
		4			500	800	1000	T	T	T	T	T	T
		6				300	300	1100	1600	3500	T	T	T
		10						400	400	1200	4000	8000	T
		16							250	400	1400	2500	6000
		20									600	1400	3500
		⩾ 25											
C60H-DC 1P or 2P [1]	**C**	⩽ 2	T	T	T	T	T	T	T	T	T	T	T
		3	120	T	T	T	T	T	T	T	T	T	T
		4		250	900	1100	1300	T	T	T	T	T	T
		6				500	500	1400	2000	4500	T	T	T
		10						500	600	1500	5000	9000	T
		16									1800	3000	7000
		20										2000	3500
		⩾ 25											

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).
[2] According to the voltage and number of pole used, the breaking capacity can changed. Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.
[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 3 and Case 4 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

T : Total selectivity.

700 : Selectivity limit = 700 A

: No selectivity.

Selectivity table

Upstream: C120, NG125 curve C
Downstream: iC60 curves B, C, D, C60H-DC curve C

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			C120N/H/L, NG125N/H/L, 1P or 2P [1]										
			Curve C										
In (A)			10	16	20	25	32	40	50	63	80	100	125
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
iC60N/H/L 1P or 2P [1]	**B**	⩽ 2	T	T	T	T	T	T	T	T	T	T	T
		3	5000	T	T	T	T	T	T	T	T	T	T
		4		1500	2000	T	T	T	T	T	T	T	T
		6			400	1500	3000	T	T	T	T	T	T
		10						1800	3000	8000	T	T	T
		16						1000	1400	2500	15000	T	T
		20									6500	11500	T
		25									4500	8500	15000
		32										5000	8000
		⩾ 40											
	C	⩽ 2	T	T	T	T	T	T	T	T	T	T	T
		3	5000	T	T	T	T	T	T	T	T	T	T
		4		1000	1400	T	T	T	T	T	T	T	T
		6			400	1000	2400	T	T	T	T	T	T
		10					800	1500	3000	8500	T	T	T
		16						800	1400	3000	15000	T	T
		20								1700	6500	11000	T
		25									4500	8500	12000
		32									3000	5000	7000
		⩾ 40											
	D	⩽ 2	T	T	T	T	T	T	T	T	T	T	T
		3	4000	T	T	T	T	T	T	T	T	T	T
		4		500	1000	T	T	T	T	T	T	T	T
		6				800	1900	T	T	T	T	T	T
		10					600	1200	2500	7000	T	T	T
		16						500	1000	2500	12000	T	T
		20								1400	5500	9000	T
		25									3500	7500	11000
		32										3500	6000
		⩾ 40											
C60H-DC 1P or 2P [1]	**C**	⩽ 2	T	T	T	T	T	T	T	T	T	T	T
		3	5000	T	T	T	T	T	T	T	T	T	T
		4		1000	1400	T	T	T	T	T	T	T	T
		6			400	1000	2400	T	T	T	T	T	T
		10					800	1500	3000	8500	T	T	T
		16						800	1400	3000	15000	T	T
		20								1700	6500	11000	T
		25									4500	8500	12000
		32									3000	5000	7000
		⩾ 40											

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).

[2] According to the voltage and number of pole used, the breaking capacity can changed. Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 3 and Case 4 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

T : Total selectivity.

500 : Selectivity limit = 700 A

: No selectivity.

Selectivity table

Upstream: C120, NG125 curve D
Downstream: iC60 curves B, C, D, C60H-DC curve C

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			C120N/H/L, NG125N/H/L, 1P or 2P [1]										
			Curve D										
In (A)			10	16	20	25	32	40	50	63	80	100	125
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
iC60N/H/L 1P or 2P [1]	**B**	⩽ 3	T	T	T	T	T	T	T	T	T	T	T
		4	5000	T	T	T	T	T	T	T	T	T	T
		6		1000	2000	T	T	T	T	T	T	T	T
		10			1000	9000	1400	3500	5000	T	T	T	T
		16						1500	2500	6000	T	T	T
		20							2000	3500	T	T	T
		25									15000	T	T
		32									9000	T	T
		40									7000	10000	T
		50											10000
		63											5000
	C	⩽ 3	T	T	T	T	T	T	T	T	T	T	T
		4	5000	T	T	T	T	T	T	T	T	T	T
		6		1000	2000	T	T	T	T	T	T	T	T
		10			1000	9000	1400	3000	4000	15000	T	T	T
		16						1500	2000	6000	T	T	T
		20								3000	T	T	T
		25									12000	T	T
		32									8000	T	T
		40									5000	9000	T
		50											9000
		63											4000
	D	⩽ 3	T	T	T	T	T	T	T	T	T	T	T
		4	5000	T	T	T	T	T	T	T	T	T	T
		6		1000	2000	T	T	T	T	T	T	T	T
		10			1000	9000	1400	3000	4000	12000	T	T	T
		16						1200	2000	5000	T	T	T
		20									T	T	T
		25									10000	T	T
		32									6000	12000	T
		40										5000	10000
		50											5000
		63											
C60H-DC 1P or 2P [1]	**C**	⩽ 3	T	T	T	T	T	T	T	T	T	T	T
		4	5000	T	T	T	T	T	T	T	T	T	T
		6		1000	2000	T	T	T	T	T	T	T	T
		10			1000	9000	1400	3000	4000	15000	T	T	T
		16						1500	2000	6000	T	T	T
		20								3000	T	T	T
		25									12000	T	T
		32									8000	T	T
		40									5000	9000	T
		50											9000
		63											4000

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).
[2] According to the voltage and number of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.
[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -
Selectivity limits in this table for Case 3 and Case 4 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

T : Total selectivity.

5000 : Selectivity limit = 700 A

: No selectivity.

Selectivity table

Upstream: Compact NSX100/160/250 DC TM-D, TM-DC
Downstream: iC60, C120, NG125, C60H-DC

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100DC								NSX160DC			NSX250 DC				
		1P1D 2P2D F/N/M/S 3P3D F/S [1]															
	Trip unit	TMD, TM-DC								TMD, TM-DC			TM-DC				
	Rating	16	25	32	40	50	63	80	100	100	125	160	160	200		250	
	Im	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	Mini	Maxi	Mini	Maxi
		260	400	550	700	700	700	800	800	800	1250	1250	1250	1000	2000	1250	2500

Downstream	Rating	Selectivity limit (kA) [2]															
iC60 N/H	0,5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60 L	3	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D curves	4	0,26	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T
	5		0,4	5	10	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D [1]	6			0,55	5	10	T	T	T	T	T	T	T	T	T	T	T
	10				0.7	5	T	T	T	T	T	T	T	T	T	T	T
	13					0,7	T	T	T	T	T	T	T	T	T	T	T
	15-16						5	T	T	T	T	T	T	T	T	T	T
	20						0,7	10	10	10	T	T	T	T	T	T	T
	25							5	10	10	T	T	T	T	T	T	T
	32							0,8	10	10	T	T	T	10	T	T	T
	40								5	5	10	T	T	5	T	T	T
	50								0,8	0,8	10	10	10		T	10	T
	63										5	5	5		T	5	T
C60H-DC	0,5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D [1]	3	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	0,26	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T
	5		0,4	5	10	T	T	T	T	T	T	T	T	T	T	T	T
	6			0,55	5	10	T	T	T	T	T	T	T	T	T	T	T
	10				0.7	5	T	T	T	T	T	T	T	T	T	T	T
	13					0,7	T	T	T	T	T	T	T	T	T	T	T
	15-16						5	T	T	T	T	T	T	T	T	T	T
	20						0,7	10	10	10	T	T	T	T	T	T	T
	25							5	10	10	T	T	T	T	T	T	T
	30-32							0,8	10	10	T	T	T	10	T	T	T
	40								5	5	10	T	T	5	T	T	T
	50								0,8	0,8	10	10	10		T	10	T
	63										5	5	5		T	5	T
C120 N/H	63										1,25	5	5		5	T	T
B-C-D curves	80														5		T
1P1D or 2P2D [1]	100														5		T
	125																T
NG125 N/H/L	10		0,4	0,5	0,7	0,7	0,7	5	5	5	10	10	10	T	T	T	T
B-C-D curves	16			0,5	0,7	0,7	0,7	0,8	5	5	10	10	10	10	T	T	T
1P1D or 2P2D [1]	20				0,7	0,7	0,7	0,8	0,8	0,8	10	10	10	5	T	T	T
	25						0,7	0,8	0,8	0,8	10	10	10	5	T	T	T
	32							0,8	0,8	0,8	5	10	10	1	T	T	T
	40								0,8	0,8	5	10	10	1	T	T	T
	50										1,25	5	5	1	10	T	T
	63										1,25	5	5		5	T	T
	80														5		T
	100 (N)														5		T
	125 (N)																T

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).
[2] According to the voltage and number of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.
[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -
Selectivity limits in this table for Case 3 and Case 4 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Compact NSX100/160/250 DC with parallel connection of poles
Downstream: iC60, C60H-DC, C120, NG125

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX 100DC F			NSX 160DC F	NSX 250 DC F			NSX 100DC F			NSX 160DC F	NSX 250DC F		
		2P2D				3P3D 2P used			4P4D						
		Parallel connection for + or -				Parallel connection for + or -			2 poles with parallel connection for + and - [2]						
	Trip unit	TM-D, TM-DC				TM-DC			TM-D, TM-DC				TM-DC		
	Rating	50	63	80	125	160	200		50	63	80	125	160	200	
	Equivalent rated current	125	158	200	313	400	500		115	145	184	288	368	460	
	Im	fixe	fixe	fixe	fixe	fixe	Mini	Maxi	fixe	fixe	fixe	fixe	fixe	Mini	Maxi
		1400	1400	1600	2500	2500	2000	4000	1400	1400	1600	2500	2500	2000	4000
Downstream	**Rating**	**Selectivity limit (kA)** [2]													
iC60 N / H	0,5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60 L	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D-curves	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D [1]	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	13	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	15-16	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	20	10	T	T	T	T	T	T		T	T	T	T	T	T
	25	5	T	T	T	T	T	T	5	T	T	T	T	T	T
	32	0,8	T	T	T	T	T	T	0,8	T	T	T	T	T	T
	40		10	T	T	T	T	T		10	T	T	T	T	T
	50		10	10	T	T	10	T		10	10	T	T	10	T
	63		5	5	T	T	5	T		5	5	T	T	5	T
C60H-DC	0,5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D [1]	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	13	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	15-16	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	20	10	T	T	T	T	T	T	10	T	T	T	T	T	T
	25	5	T	T	T	T	T	T	5	T	T	T	T	T	T
	30-32	0,8	T	T	T	T	T	T	0,8	T	T	T	T	T	T
	40		10	T	T	T	T	T		10	T	T	T	T	T
	50		10	10	T	T	10	T		10	10	T	T	10	T
	63		5	5	T	T	5	T		5	5	T	T	5	T
C120 N/H	63		1,25	5	T	T	T	T		1,25	5	T	T	T	T
B-C-D Curves	80				T	T		T				T	T		T
1P1D or 2P2D [1]	100				T	T		T				T	T		T
	125				T	T		T				T	T		T
NG125 N/H/L	10	5	10	10	T	T	T	T	5	10	10	T	T	T	T
B-C-D Curves	16	0,8	10	10	T	T	T	T	0,8	10	10	T	T	T	T
1P1D or 2P2D [1]	20	0,8	10	10	T	T	T	T	0,8	10	10	T	T	T	T
	25	0,8	10	10	T	T	T	T	0,8	10	10	T	T	T	T
	32	0,8	5	10	T	T	T	T	0,8	5	10	T	T	T	T
	40		5	10	T	T	T	T		5	10	T	T	T	T
	50		1,25	5	T	T	T	T		1,25	5	T	T	T	T
	63		1,25	5	T	T	T	T		1,25	5	T	T	T	T
	80				T	T		T				T	T		T
	100 (N)				T	T		T				T	T		T
	125 (N)				T	T		T				T	T		T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Compact NSX100/160/250 DC TM-G
Downstream: iC60, C60H-DC, C120, NG125

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100DC						NSX160DC			NSX250 DC		
		3P3D (1 or 2 P used) F/S [1]											
	Trip unit	TM-G						TM-G			TM-G		
	Rating	16	25	40	63	80	100	100	125	160	160	200	250
	Im	80	100	100	150	250	400	400	530	530	530	530	625

Downstream	In	Im	Selectivity limit (kA) [2]											
iC60 N/H/L	0,5		10	10	10	T	T	T	T	T	T	T	T	T
B-C-D Curves	1		5	5	5	T	T	T	T	T	T	T	T	T
	2		0,08	0,1	0,1	10	T	T	T	T	T	T	T	T
	3				0,1	5	10	T	T	T	T	T	T	T
	4					0,15	5	10	10	T	T	T	T	T
1P1D or 2P2D [1]	5						0,25	5	5	T	T	T	T	T
	6							0,4	0,4	T	T	T	T	T
	10									10	10	10	10	T
	13									5	5	5	5	10
	15-16									5	5	5	5	5
	20									0,5	0,5	0,5	0,5	5
	25													0,6
	32													
	40													
	50													
	63													
C60H-DC	0,5		10	10	10	T	T	T	T	T	T	T	T	T
C Curves	1		5	5	5	T	T	T	T	T	T	T	T	T
	2		0,08	0,1	0,1	10	T	T	T	T	T	T	T	T
1P1D or 2P2D [1]	3				0,1	5	10	T	T	T	T	T	T	T
	4					0,15	5	10	10	T	T	T	T	T
	5						0,25	5	5	T	T	T	T	T
	6							0,4	0,4	T	T	T	T	T
	10									10	10	10	10	T
	13									5	5	5	5	10
	15-16									5	5	5	5	5
	20									5	5	5	5	5
	25									0,5	0,5	0,5	0,5	5
	30-32													0,6
	40													
	50													
	63													
NG125 N/H/L	10						0,25	0,4	0,4	0,5	0,5	0,5	0,5	0,6
B-C-D Curves	16							0,4	0,5	0,5	0,5	0,5	0,5	0,6
	20									0,5	0,5	0,5	0,5	0,6
1P1D or 2P2D [1]	25													0,6
	32													
	40													

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Compact NSX100/160/250 DC TM-D, TM-DC
Downstream: Compact NSX100/160 DC TM-D, TM-DC, TM-G

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100 DC								NSX160 DC			NSX250 DC				
		1P1D 2P2D F/N/M/S (3P3D F/S) [1]											3P3D (1 or 2 P Used) F/S [1]				
	Trip unit	TM-D								TM-D, TM-DC			TM-DC				
	Rating	16	25	32	40	50	63	80	100	100	125	160	160	200		250	
	Im	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	Mini	Maxi	Mini	Maxi
		260	400	550	700	700	700	640	800	800	1250	1250	1250	1000	2000	1250	2500

Downstream	Rating	Im	Selectivity limit (kA) [2]															
NSX100DC	16	260			0,5	0,7	0,7	0,7	0,7	0,8	0,8	1,25	1,25	1,25	1	2	1,25	5
TM-D	25	400				0,7	0,7	0,7	0,7	0,8	0,8	1,25	1,25	1,25	1	2	1,25	5
(TM-DC)	32	400						0,7	0,7	0,8	0,8	1,25	1,25	1,25	1	2	1,25	5
1P1D or 2P2PD	40	700							0,7	0,8	0,8	1,25	1,25	1,25	1	2	1,25	5
(3P3D)	50	700							0,7	0,8	0,8	1,25	1,25	1,25	1	2	1,25	2,5
[1]	63	700								0,8	0,8	1,25	1,25	1,25	1	2	1,25	2,5
	80	800										1,25	1,25	1,25	1	2	1,25	2,5
	100	1000										1,25	1,25	1,25	1	2	1,25	2,5
NSX100DC	16	80			0,5	0,7	0,7	0,7	0,7	0,8	0,8	1,25	1,25	1,25	1	2	1,25	10
TM-G	25	100				0,7	0,7	0,7	0,7	0,8	0,8	1,25	1,25	1,25	1	2	1,25	5
3P3D	40	100							0,7	0,8	0,8	1,25	1,25	1,25	1	2	1,25	5
[1]	63	150							0,7	0,8	0,8	1,25	1,25	1,25	1	2	1,25	5
	80	250								0,8		1,25	1,25	1,25	1	2	1,25	2,5
	100	400										1,25	1,25	1,25	1	2	1,25	2,5
NSX160DC	100	1000										1,25	1,25	1,25	1	2	1,25	2,5
1P1D or 2P2D	125	1200															1,25	2,5
3P2D [1]	160	1250																
NSX160DC	125	530															1,25	2,5
TM-G 3P3D [1]	160	530																

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Compact NSX400/630/1200 DC TM-DC
Downstream: iC60, C60H-DC, C120, NG125

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX400DC F/S						NSX630DC F/S				NSX1200DC N							
		3P3D (1 or 2 P Used) [1]										2P2D							
	Trip unit	TM-DC						TM-DC				TM-DC							
	Rating	250		320		400		500		600		630		800		1000		1200	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
		625	1250	800	1600	1000	2000	1250	2500	1500	3000	1575	3150	2000	4000	2500	5000	3000	6000

Downstream	Rating Im	Selectivity limit (kA) [2]																	
iC60 N/H/L	0,5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	10	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	13	5	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	15-16	0,6	T	5	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T
	20		10	5	T	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	25		5	0,8	10	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	32		1,25	0,8	10	1	10	T	T	T	T	T	T	T	T	T	T	T	T
	40				10		10	T	T	T	T	T	T	T	T	T	T	T	T
	50				5		5	T	T	T	T	T	T	T	T	T	T	T	T
	63				5		2	T	T	T	T	T	T	T	T	T	T	T	T
C60H-DC	0,5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	10	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	13	5	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	15-16	0,6	T	5	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T
	20		10	5	T	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	25		5	0,8	10	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	30-32		1,25	0,8	10	1	10	T	T	T	T	T	T	T	T	T	T	T	T
	40				10		10	T	T	T	T	T	T	T	T	T	T	T	T
	50				5		5	T	T	T	T	T	T	T	T	T	T	T	T
	63				5		2	T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H	63								T	1,5	T	1,5	T	5	T	T	T	T	T
	80								T		T		T	2	T	T	T	T	T
1P1D or 2P2D	100 (N)								T		T		T		T	T	T	T	T
[1]	125 (N)								5		T		T		T	5	T	T	T
NG125 N/H/L	10	0,625	5	5	10	5	10	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	16		1,25	0,8	10	5	10	T	T	T	T	T	T	T	T	T	T	T	T
	20				5	1	10	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	25				5	1	5	10	T	T	T	T	T	T	T	T	T	T	T
[1]	32				1,6	1	5	5	T	10	T	10	T	T	T	T	T	T	T
	40						2	5	T	5	T	5	T	T	T	T	T	T	T
	50							1,25	T	5	T	5	T	10	T	T	T	T	T
	63								T	1,5	T	1,5	T	5	T	T	T	T	T
	80								T		T		T	2	T	T	T	T	T
	100 (N)								T		T		T		T	T	T	T	T
	125 (N)								5		T		T		T	5	T	T	T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Compact NSX400/630/1200 DC TM-DC
Downstream: Compact NSX100/160/250 DC TM-D, TM-DC, TM-G

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX400DC F/S						NSX630DC F/S				NSX1200DC N							
		3P3D (1 or 2 P Used) [1]										2P2D							
	Trip unit	TM-DC						TM-DC				TM-DC							
	Rating	250		320		400		500		600		630		800		1000		1200	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
	Im	625	1250	800	1600	1000	2000	1250	2500	1500	3000	1575	3150	2000	4000	2500	5000	3000	6000

Downstream	Rating	Im	Selectivity limit (kA) [2]																	
NSX100DC	16	260	0,63	1,25	0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	T
TM-D	25	400		1,25	0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	10
(TM-DC)	32	400				1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
1P1D or 2P2PD	40	700				1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
(3P3D)	50	700				1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
[1]	63	700				1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
	80	800					1	2		2,5		3	1,5	3,1	2	4	2,5	5	3	6
	100	1000						2		2,5		3		3,1	2	4	2,5	5	3	6
NSX100DC	16	80	0,63	1,25	0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	T
TM-G	25	100	0,63	1,25	0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	10
3P3P	40	100	0,63	1,25	0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
[1]	63	150	0,63	1,25	0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
	80	250	0,63	1,25	0,8	1,6	1	2		2,5		3	1,5	3,1	2	4	2,5	5	3	6
	100	400			0,8	1,6	1	2		2,5		3	1,5	3,1	2	4	2,5	5	3	6
NSX160DC	100	1000						2		2,5		3	1,5	3,1	2	4	2,5	5	3	6
TM-DC	125	1200								2,5		3		3,1		4	2,5	5	3	6
1P1D or 2P2PD	160	1250								2,5		3		3,1		4	2,5	5	3	6
NSX160DC	125	530								2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
TM-G 3P3D	160	530								2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
NSX250DC	200	1000								2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
TM-DC		2000										3		3,1		4	2,5	5	3	6
3P3D [1]	250	1250												3,1		4	2,5	5	3	6
		2500												3,1		4		5	3	6
NSX250DC	200	530							1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
TM-G 3P3D	250	625							1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Masterpact NW DC
Downstream: iC60, C60H-DC, C120, NG125, Compact NSX100/160/250

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NW10DC -C N/H					NW10DC -C N/H					NW10DC -C N/H				
							NW20DC -C N/H					NW20DC -C N/H				
												NW40DC-C N/H				
		2P2D														
	Trip unit	Micrologic 1.0 DC														
		Range 1250/2500A					Range 2500/5400A					Range 5000/11000A				
	Type	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Setting	1250	1500	1600	2000	2500	2500	3300	4000	5000	5400	5000	8000	10000	11000	11000

Downstream	Rating	Im	Selectivity limit (kA) [2]														
iC60 N / H	0,5-63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C60H-DC	0,5-63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H	63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	80		1,25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100		1,25	1,5	T	T	T	T	T	T	T	T	T	T	T	T	T
	125		1,25	1,5	1,6	T	T	T	T	T	T	T	T	T	T	T	T
NG125 N/H/L	10-50		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	80		1,25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100 (N)		1,25	1,5	T	T	T	T	T	T	T	T	T	T	T	T	T
	125 (N)		1,25	1,5	1,6	T	T	T	T	T	T	T	T	T	T	T	T
NSX100DC N/H	16	260	1,25	1,5	1,6	10	T	T	T	T	T	T	T	T	T	T	T
TM-D	25	400	1,25	1,5	1,6	5	10	10	T	T	T	T	T	T	T	T	T
	32	400	1,25	1,5	1,6	2	5	5	T	T	T	T	T	T	T	T	T
	40	700		1,5	1,6	2	2,5	2,5	10	T	T	T	T	T	T	T	T
	50	700		1,5	1,6	2	2,5	2,5	5	T	T	T	T	T	T	T	T
	63	700		1,5	1,6	2	2,5	2,5	3,3	T	T	T	T	T	T	T	T
TM-DC	80	800		1,5	1,6	2	2,5	2,5	3,3	4	T	T	T	T	T	T	T
	100	1000				2	2,5	2,5	3,3	4	5	T	T	T	T	T	T
NSX100DC	16	80	1,25	1,5	1,6	10	T	T	T	T	T	T	T	T	T	T	T
TM-G	25	100	1,25	1,5	1,6	5	10	10	T	T	T	T	T	T	T	T	T
	40	100		1,5	1,6	2	2,5	2,5	10	T	T	T	T	T	T	T	T
	63	150		1,5	1,6	2	2,5	2,5	3,3	T	T	T	T	T	T	T	T
	80	250		1,5	1,6	2	2,5	2,5	3,3	4	T	T	T	T	T	T	T
	100	400				2	2,5	2,5	3,3	4	5	T	T	T	T	T	T
NSX160DC	100	1000				2	2,5	2,5	5	T	T	T	T	T	T	T	T
TM-DC	125	1200					2,5	2,5	3,3	10	T	T	T	T	T	T	T
	160	1250					2,5	2,5	3,3	5	10	T	T	T	T	T	T
NSX160DC	125	530	1,25	1,5	1,6	2	2,5	2,5	3,3	10	T	T	T	T	T	T	T
TM-G	160	530	1,25	1,5	1,6	2	2,5	2,5	3,3	5	10	T	T	T	T	T	T
NSX250DC	200	1000				2	2,5	2,5	5	T	T	T	T	T	T	T	T
TM-DC		2000								5	T	T	T	T	T	T	T
	250	1250					2,5	2,5	3,3	5	10	T	T	T	T	T	T
		2500						2,5	3,3	4	5	T	T	T	T	T	T
NSX250DC	200	530	1,25	1,5	1,6	2	2,5	2,5	5	T	T	T	T	T	T	T	T
TM-G	250	625		1,5	1,6	2	2,5	2,5	3,3	5	10	T	T	T	T	T	T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Masterpact NW DC
Downstream: Compact NSX400/630/1200 DC, Masterpact NW DC

24 - 48 - 60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NW10DC -C N/H					NW10DC -C N/H					NW10DC -C N/H				
							NW20DC -C N/H					NW20DC -C N/H				
												NW40DC-C N/H				
		2P2D														
	Trip unit	Micrologic 1.0 DC														
		Range 1250/2500A					Range 2500/5400A					Range 5000/11000A				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Setting	1250	1500	1600	2000	2500	2500	3300	4000	5000	5400	5000	8000	10000	11000	11000

Downstream	Rating	Im	Selectivity limit (kA) [2]													
NSX400DC	250	635	1,25	1,5	1,6	2	2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
TM-DC		1250					2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
3P3D [1]	320	800			1,6	2	2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
		1600							3,3	4	5	5,4	5	10	T	T	T
	400	1000				2	2,5	2,5	3,3	4	5	5,4	5	10	T	T	T
		2000								4	5	5,4	5	10	T	T	T
NSX630DC	500	1250						2,5	3,3	4	5	5,4	5	T	T	T	T
TM-DC		2500									5	5,4	5	10	T	T	T
3P3D [1]	600	1500							3,3	4	5	5,4	5	10	T	T	T
		3000												10	T	T	T
NSX1200DC	630	1575							3,3	4	5	5,4	5	8	10	11	11
TM-DC		3150												8	10	11	11
3P3D [1]	800	2000								4	5	5,4	5	8	10	11	11
		4000												8	10	11	11
	1000	2500											5	8	10	11	11
		5000													10	11	11
	1200	3000												8	10	11	11
		6000														11	11
NW DC-C	1000	1250							3,3	4	5	5,4	5	8	10	11	11
		2500									5	5,4	5	8	10	11	11
	1000/2000	2500									5	5,4	5	8	10	11	11
		5400													10	11	11
	1000/2000/4000	5000													10	11	11
		11000															

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: C60H-DC curve C
Downstream: C60H-DC curve C

110, 125 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			C60H-DC, 1P or 2P [1]												
			Curve C												
In (A)			1	2	3	4	6	10	16	20	25	32	40	50	63
Downstream															
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**												
C60H-DC 1P or 2P [1]	**C**	0.5	T	T	T	T	T	T	T	T	T	T	T	T	T
		1					250	T	T	T	T	T	T	T	T
		2						250	900	1800	11000	T	T	T	T
		3							300	500	700	1800	5000	T	T
		4										900	1300	3000	6000
		6												1200	1800
		≥ 10													

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

T : Total selectivity.

500 : Selectivity limit = 500 A

: No selectivity.

Selectivity table

Upstream: C120, NG125 curves B, C, D
Downstream: C60H-DC curve C

110, 125 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			C120N/H/L, NG125N/H/L, 1P or 2P [1]										
			Curve B										
In (A)			10	16	20	25	32	40	50	63	80	100	125
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
C60H-DC 1P or 2P [1]	C	0.5	500	T	T	T	T	T	T	T	T	T	T
		1		450	T	T	T	T	T	T	T	T	T
		2			500	800	2500	T	T	T	T	T	T
		3						2400	4000	5000	T	T	T
		4						800	1000	1500	5000	T	T
		6									1800	3000	7000
		10										1500	3500
		16											2500
		≥ 20											

Upstream			C120N/H/L, NG125N/H/L, 1P or 2P [1]										
			Curve C										
In (A)			10	16	20	25	32	40	50	63	80	100	125
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
C60H-DC 1P or 2P [1]	C	0.5	T	T	T	T	T	T	T	T	T	T	T
		1	1000	T	T	T	T	T	T	T	T	T	T
		2		5000	T	T	T	T	T	T	T	T	T
		3			1800	T	T	T	T	T	T	T	T
		4				1300	5500	12000	T	T	T	T	T
		6					2400	3000	6000	7000	12000	T	T
		10								3500	5500	8500	T
		16										5500	9000
		20											6000
		25											5000
		≥ 32											

Upstream			C120N/H/L, NG125N/H/L, 1P or 2P [1]										
			Curve D										
In (A)			10	16	20	25	32	40	50	63	80	100	125
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
C60H-DC 1P or 2P [1]	C	≤ 1	T	T	T	T	T	T	T	T	T	T	T
		2	2500	6000	T	T	T	T	T	T	T	T	T
		3	700	1500	7000	T	T	T	T	T	T	T	T
		4			1800	10000	12000	T	T	T	T	T	T
		6				2500	3000	4000	6000	7000	T	T	T
		10							2000	3000	T	T	T
		16									9000	T	T
		20									5000	T	T
		25										10000	T
		32										5000	12000
		40											6000
		≥ 50											

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).

[2] According to the voltage and number of pole used, the breaking capacity can changed. Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 3 and Case 4 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

T : Total selectivity.

500 : Selectivity limit = 500 A

: No selectivity.

Selectivity table

Upstream: Compact NSX100/160/250 DC TM-DC
Downstream: iC60, C60H-DC, C120, NG125

110 - 125V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100DC								NSX160DC			NSX250 DC				
		1P1D 2P2D F/N/M/S 3P3D F/S [1]											3P3D (1 or 2 P used) F/S [1]				
	Trip unit	TMD, TM-DC								TMD, TM-DC			TM-DC				
	Rating	16	25	32	40	50	63	80	100	100	125	160	160	200		250	
	Im	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	Mini	Maxi	Mini	Maxi
		260	400	550	700	700	700	800	800	800	1250	1250	1250	1000	2000	1250	2500
Downstream	**Rating**	**Selectivity limit (kA)** [2]															
iC60 N/H/L	0,5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	3	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	0,26	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5		0,4	10	10	T	T	T	T	T	T	T	T	T	T	T	T
	6			5	5	10	T	T	T	T	T	T	T	T	T	T	T
	10			0,55	0,7	5	T	T	T	T	T	T	T	T	T	T	T
2x (1P1D or 2P2D) [1]	13					0,7	T	T	T	T	T	T	T	T	T	T	T
(2 Poles in serie)	15-16						5	T	T	T	T	T	T	T	T	T	T
	20						0,7	10	10	10	T	T	T	T	T	T	T
	25							5	10	10	T	T	T	T	T	T	T
	32							0,8	10	10	T	T	T	10	T	T	T
	40								5	5	10	T	T	5	T	T	T
	50								0,8	0,8	10	10	10		T	10	T
	63										5	10	5		T	5	T
C60H-DC	0,5	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C Curves	1	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	0,26	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D [1]	3		0,4	5	10	T	T	T	T	T	T	T	T	T	T	T	T
	4			0,5	5	10	T	T	T	T	T	T	T	T	T	T	T
	5				0,7	5	T	T	T	T	T	T	T	T	T	T	T
	6					5	10	T	T	T	T	T	T	T	T	T	T
	10					0,7	5	10	T	T	T	T	T	T	T	T	T
	13						0,7	5	10	10	T	T	T	T	T	T	T
	15-16							0,8	10	10	T	T	T	10	T	T	T
	20								5	5	T	T	T	5	T	T	T
	25								0,8	0,8	10	T	T	0,8	T	T	T
	30-32										5	10	10		T	10	T
	40											5	5		T	5	T
	50														10		10
	63														5		5
C120 N/H	63											1,25	1,25		5	10	T
B-C-D Curves	80														2		T
1P1D or 2P2D [1]	100														2		T
	125																T
NG125 N/H/L	10		0,4	0,5	0,7	0,7	0,7	0,8	0,8	0,8	10	10	10	5	T	T	T
B-C-D Curves	16			0,5	0,7	0,7	0,7	0,8	0,8	0,8	10	10	10	1	T	T	T
1P1D or 2P2D [1]	20				0,7	0,7	0,7	0,8	0,8	0,8	10	10	10	1	T	T	T
	25						0,7	0,8	0,8	0,8	5	10	10	1	T	T	T
	32							0,8	0,8	0,8	1,25	5	5	1	T	T	T
	40								0,8	0,8	1,25	1,25	1,25	1	10	T	T
	50										1,25	1,25	1,25	1	5	T	T
	63											1,25	1,25		5	10	T
	80														2		T
	100 (N)														2		T
	125 (N)																T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Compact NSX100/160/250 DC with parallel connection of poles
Downstream: iC60, C60H-DC, C120, NG125

110 - 125V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX 100DC F			NSX 160DC F	NSX 250 DC F			NSX 100DC F			NSX 160DC F	NSX 250 DC F		
		2P2D				3P3D 2P used			4P4D						
		Parallel connection for + or -				Parallel connection for + or -			2 poles with parallel connection for + and - [2]						
	Trip unit	TM-D, TM-DC				TM-DC			TM-D, TM-DC				TM-DC		
	Rating	50	63	80	125	160	200		50	63	80	125	160	200	
	Equivalent rated current	125	158	200	313	400	500		115	145	184	288	368	460	
	Im	fixe	fixe	fixe	fixe	fixe	Mini	Maxi	fixe	fixe	fixe	fixe	fixe	Mini	Maxi
		1400	1400	1600	2500	2500	2000	4000	1400	1400	1600	2500	2500	2000	4000

Downstream	Rating	Selectivity limit (kA) [2]													
iC60 N/H/L	0,5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
2x (1P1D or 2P2D) [1]	13	T	T	T	T	T	T	T	T	T	T	T	T	T	T
(2 Poles in serie)	15-16	T	T	T	T	T	T	T	v	T	T	T	T	T	T
	20	10	T	T	T	T	T	T	10	T	T	T	T	T	T
	25	5	T	T	T	T	T	T	5	T	T	T	T	T	T
	32	0,8	T	T	T	T	T	T	0,8	T	T	T	T	T	T
	40		10	T	T	T	T	T		10	T	T	T	T	T
	50		10	10	T	T	10	T		10	10	T	T	10	T
	63		5	10	T	T	5	T		5	10	T	T	5	T
C60H-DC	0,5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D [1]	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	10	T	T	T	T	T	T	10	T	T	T	T	T	T
	13	5	T	T	T	T	T	T	5	T	T	T	T	T	T
	15-16	0,8	T	T	T	T	T	T	0,8	T	T	T	T	T	T
	20		T	T	T	T	T	T		T	T	T	T	T	T
	25		10	T	T	T	T	T		10	T	T	T	T	T
	30-32		5	10	T	T	10	T		5	10	T	T	10	T
	40			5	T	T	5	T			5	T	T	5	T
	50				10	T		T				10	T		T
	63				5	T		T				5	T		T
C120 N/H	63			1,25	T	T	10	T			1,25	T	T	10	T
B-C-D Curves	80				T	T		T				T	T		T
1P1D or 2P2D [1]	100				T	T		T				T	T		T
	125				T	T		T				T	T		T
NG125 N/H/L	10	0,8	10	10	T	T	T	T	0,8	10	10	T	T	T	T
B-C-D Curves	16	0,8	10	10	T	T	T	T	0,8	10	10	T	T	T	T
1P1D or 2P2D [1]	20	0,8	10	10	T	T	T	T	0,8	10	10	T	T	T	T
	25	0,8	5	10	T	T	T	T	0,8	5	10	T	T	T	T
	32	0,8	1,25	5	T	T	T	T	0,8	1,25	5	T	T	T	T
	40		1,25	1,25	T	T	T	T		1,25	1,25	T	T	T	T
	50		1,25	1,25	T	T	T	T		1,25	1,25	T	T	T	T
	63			1,25	T	T	10	T			1,25	T	T	10	T
	80				T	T		T				T	T		T
	100 (N)				T	T		T				T	T		T
	125 (N)				T	T		T				T	T		T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Compact NSX100/160/250DC TM-G
Downstream: iC60, C60H-DC, NG125

110 - 125V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100DC						NSX160DC			NSX250 DC		
		3P3D (1 or 2 P used) F/S [1]											
	Trip unit	TM-G						TM-G			TM-G		
	Rating	16	25	40	63	80	100	100	125	160	160	200	250
	Im	80	100	100	150	250	400	400	530	530	530	530	625
Downstream	**In**	**Im**	**Selectivity limit (kA)** [2]										
iC60 N/H/L	0,5		10	10	10	T	T	T	T	T	T	T	T	T
B-C-D Curves	1		5	5	5	T	T	T	T	T	T	T	T	T
	2		0,08	0,1	0,1	10	T	T	T	T	T	T	T	T
	3				0,1	5	10	T	T	T	T	T	T	T
	4					0,15	5	10	10	T	T	T	T	T
2x(1P1D or 2P2D)	5						0,25	5	5	T	T	T	T	T
[1]	6							0,4	0,4	T	T	T	T	T
(2 Poles in serie)	10									10	10	10	10	T
	13									5	5	5	5	10
	15-16									5	5	5	5	5
	20									5	5	5	5	5
	25									0,5	0,5	0,5	0,5	5
	32													0,6
	40													
	50													
	63													
C60H-DC	0,5		5	5	5	10	T	T	T	T	T	T	T	T
C Curves	1		0,08	0,1	0,1	5	10	T	T	T	T	T	T	T
1P1D or 2P2D	2			0,1	0,1	0,15	5	10	10	T	T	T	T	T
[1]	3				0,1	0,15	0,25	5	5	T	T	T	T	T
	4					0,15	0,25	0,4	0,4	T	T	T	T	T
	5						0,25	0,4	0,4	T	T	T	T	T
	6							0,4	0,4	10	10	10	10	T
	10									10	10	10	10	10
	13									5	5	5	5	10
	15-16									0,5	0,5	0,5	0,5	5
	20									0,5	0,5	0,5	0,5	0,6
	25										0,5	0,5	0,5	0,6
	30-32													0,6
	40													
	50													
	63													
NG125 N/H/L	10						0,25	0,4	0,4	0,5	0,5	0,5	0,5	0,6
B-C-D Curves	16							0,4	0,5	0,5	0,5	0,5	0,5	0,6
1P1D or 2P2D	20									0,5	0,5	0,5	0,5	0,6
[1]	25													0,6
	32													
	40													

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Compact NSX100/160/250 DC TM-D, TM-DC
Downstream: Compact NSX100/160 DC TM-D, TM-DC, TM-G

110 - 125V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100 DC								NSX160 DC				NSX250 DC				
	Trip unit	1P1D 2P2D F/N/M/S (3P3D F/S) [1]												3P3D (1 or 2 P Used) F/S [1]				
		TM-D								TM-D, TM-DC				TM-DC				
	Rating	16	25	32	40	50	63	80	100	80	100	125	160	160	200		250	
	Im	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	Mini	Maxi	Mini	Maxi
		260	400	550	700	700	700	640	800	640	800	1250	1250	1250	1000	2000	1250	2500

Downstream	Rating	Im	Selectivity limit (kA) [2]																
NSX100DC	16	260			0,5	0,7	0,7	0,7	0,7	0,8	0,7	0,8	1,25	1,25	1,25	1	2	1,25	5
TM-D	25	400				0,7	0,7	0,7	0,7	0,8	0,7	0,8	1,25	1,25	1,25	1	2	1,25	5
(TM-DC)	32	400						0,7	0,7	0,8	0,7	0,8	1,25	1,25	1,25	1	2	1,25	5
1P1D or 2P2PD	40	700							0,7	0,8	0,7	0,8	1,25	1,25	1,25	1	2	1,25	2,5
(3P3D)	50	700							0,7	0,8	0,7	0,8	1,25	1,25	1,25	1	2	1,25	2,5
[1]	63	700								0,8		0,8	1,25	1,25	1,25	1	2	1,25	2,5
	80	800											1,25	1,25	1,25	1	2	1,25	2,5
	100	1000											1,25	1,25	1,25	1	2	1,25	2,5
NSX100DC	16	80			0,5	0,7	0,7	0,7	0,7	0,8	0,7	0,8	1,25	1,25	1,25	1	2	1,25	10
TM-G	25	100				0,7	0,7	0,7	0,7	0,8	0,7	0,8	1,25	1,25	1,25	1	2	1,25	5
3P3D	40	100							0,7	0,8	0,7	0,8	1,25	1,25	1,25	1	2	1,25	5
[1]	63	150							0,7	0,8		0,8	1,25	1,25	1,25	1	2	1,25	5
	80	250								0,8			1,25	1,25	1,25	1	2	1,25	2,5
	100	400											1,25	1,25	1,25	1	2	1,25	2,5
NSX160DC	100	1000											1,25	1,25	1,25	1	2	1,25	2,5
1P1D or 2P2D	125	1200																1,25	2,5
3P2D [1]	160	1250																	
NSX160DC	125	530																1,25	2,5
TM-G 3P3D [1]	160	530																	

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Compact NSX400/630/1200 DC TM-DC
Downstream: iC60, C60H-DC, C120, NG125

110 - 125V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			NSX400DC F/S						NSX630DC F/S				NSX1200DC N							
			3P3D (1 or 2 P Used) [1]										2P2D							
		Trip unit	TM-DC						TM-DC				TM-DC							
		Rating	250		320		400		500		600		630		800		1000		1200	
			min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Downstream	In	Im	625	1250	800	1600	1000	2000	1250	2500	1500	3000	1575	3150	2000	4000	2500	5000	3000	6000

Downstream	Rating Im	Selectivity limit (kA) [2]																	
iC60 N/H/L	0,5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
2x (1P1D or 2P2D)	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
(2 Poles in serie)	10	10	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	13	5	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	15-16	0,6	T	5	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T
	20		10	5	T	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	25		5	0,8	10	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	32		1,25	0,8	10	1	10	T	T	T	T	T	T	T	T	T	T	T	T
	40				10		10	T	T	T	T	T	T	T	T	T	T	T	T
	50				5		5	T	T	T	T	T	T	T	T	T	T	T	T
	63				5		2	T	T	T	T	T	T	T	T	T	T	T	T
C60H-DC	0,5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C curve	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	15	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	5	T	15	T	15	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	0,6	T	10	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T
	13		15	5	T	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	15-16		5	0,8	15	5	15	T	T	T	T	T	T	T	T	T	T	T	T
	20		1,25		10	5	10	T	T	T	T	T	T	T	T	T	T	T	T
	25				10	1	10	T	T	T	T	T	T	T	T	T	T	T	T
	30-32				5	1	10	T	T	T	T	T	T	T	T	T	T	T	T
	40				5	1	5	T	T	T	T	T	T	T	T	T	T	T	T
	50				5	1	5	10	T	T	T	T	T	T	T	T	T	T	T
	63				5	1	5	10	T	T	T	T	T	T	T	T	T	T	T
C120 N/H	63								T		T		T		T	2,5	T	T	T
B-C-D Curves	80								5		T		T		T		T	T	T
1P1D or 2P2D	100 (N)								5		10		10		10		T	T	T
[1]	125 (N)								5		5		5		5		T	T	T
NG125 N/H/L	10	0,625	1,25	0,8	1,6	1	5	T	T	10	T	10	T	T	T	T	T	T	T
B-C-D Curves	16				1,6	1	2	5	T	5	T	5	T	T	T	T	T	T	T
1P1D or 2P2D	20						2	1,25	T	1,5	T	1,5	T	T	T	T	T	T	T
[1]	25								T		T		T	10	T	T	T	T	T
	32								T		T		T	5	T	10	T	T	T
	40								T		T		T	2	T	5	T	T	T
	50								T		T		T	2	T	2,5	T	T	T
	63								T		T		T		T	2,5	T	T	T
	80								5		T		T		T		T	T	T
	100 (N)								5		10		10		10		T	T	T
	125 (N)								5		5		5		5		T	T	T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Compact NSX400/630/1200 DC TM-DC
Downstream: Compact NSX100/160/250 DC, TM-D, TM-DC, TM-G

110 - 125V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX400DC F/S						NSX630DC F/S				NSX1200DC N							
	Trip unit	TM-DC						TM-DC				TM-DC							
	Rating	250		320		400		500		600		630		800		1000		1200	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
	Im	625	1250	800	1600	1000	2000	1250	2500	1500	3000	1575	3150	2000	4000	2500	5000	3000	6000

Downstream	Rating		Selectivity limit (kA) [2]																
NSX100DC	16	260	0,63	1,25	0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	T
TM-D	25	400	0,63	1,25	0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	10
(TM-DC)	32	400		1,25	0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
1P1D or 2P2PD	40	700			0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
(3P3D)	50	700				1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
[1]	63	700					1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
	80	800						2		2,5		3	1,5	3,1	2	4	2,5	5	3	6
	100	1000						2		2,5		3		3,1	2	4	2,5	5	3	6
NSX100DC	16	80	0,63	1,25	0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	T
TM-G	25	100	0,63	1,25	0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	10
3P3P	40	100			0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
[1]	63	150					1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
	80	250						2		2,5		3	1,5	3,1	2	4	2,5	5	3	6
	100	400						2		2,5		3	1,5	3,1	2	4	2,5	5	3	6
NSX160DC	100	1000						2		2,5		3	1,5	3,1	2	4	2,5	5	3	6
TM-DC	125	1200								2,5		3		3,1		4	2,5	4	3	6
1P1D or 2P2PD	160	1250								2,5		3		3,1		4	2,5	4	3	6
NSX160DC	125	530								2,5	1,5	3	1,5	3,1	2	4	2,5	4	3	6
TM-G 3P3D	160	530								2,5	1,5	3	1,5	3,1	2	4	2,5	4	3	6
NSX250DC	200	1000								2,5	1,5	3	1,5	3,1	2	4	2,5	4	3	6
TM-DC		2000										3		3,1		4	2,5	4	3	6
3P3D [1]	250	1250												3,1		4	2,5	4	3	6
		2500												3,1		4		4	3	6
NSX250DC	200	530							1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	4	3	6
TM-G 3P3D	250	625							1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	4	3	6

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Masterpact NW DC
Downstream: iC60, C60H-DC, C120, NG125, Compact NSX100/160/250

110 - 125V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NW10DC -C N/H					NW10DC -C N/H					NW10DC -C N/H				
							NW20DC -C N/H					NW20DC -C N/H				
												NW40DC-C N/H				
		2P2D														
	Trip unit	Micrologic 1.0 DC														
		Range 1250/2500A					Range 2500/5400A					Range 5000/11000A				
	Type	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Setting	1250	1500	1600	2000	2500	2500	3300	4000	5000	5400	5kA	8kA	10kA	11kA	11kA

Downstream	Rating	Im	Selectivity limit (kA) [2]														
iC60 N/H/L 2x (1P1D or 2P2D) [1]	0,5-63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C60H-DC [1]	0,5-63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H	63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	80		1,25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	100		1,25	1,5	T	T	T	T	T	T	T	T	T	T	T	T	T
	125		1,25	1,5	1,6	T	T	T	T	T	T	T	T	T	T	T	T
NG125 N/H/L	10-50		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	80		1,25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	100 (N)		1,25	1,5	T	T	T	T	T	T	T	T	T	T	T	T	T
	125 N)		1,25	1,5	1,6	T	T	T	T	T	T	T	T	T	T	T	T
NSX100DC N/H	16	260	1,25	1,5	1,6	10	T	T	T	T	T	T	T	T	T	T	T
TM-D	25	400	1,25	1,5	1,6	5	10	10	T	T	T	T	T	T	T	T	T
	32	400	1,25	1,5	1,6	2	5	5	T	T	T	T	T	T	T	T	T
	40	700		1,5	1,6	2	2,5	2,5	10	T	T	T	T	T	T	T	T
	50	700		1,5	1,6	2	2,5	2,5	5	T	T	T	T	T	T	T	T
	63	700		1,5	1,6	2	2,5	2,5	3,3	T	T	T	T	T	T	T	T
TM-DC	80	800		1,5	1,6	2	2,5	2,5	3,3	4	T	T	T	T	T	T	T
	100	1000				2	2,5	2,5	3,3	4	5	T	T	T	T	T	T
NSX100DC	16	80	1,25	1,5	1,6	10	T	T	T	T	T	T	T	T	T	T	T
TM-G	25	100	1,25	1,5	1,6	5	10	10	T	T	T	T	T	T	T	T	T
	40	100		1,5	1,6	2	2,5	2,5	10	T	T	T	T	T	T	T	T
	63	150		1,5	1,6	2	2,5	2,5	3,3	T	T	T	T	T	T	T	T
	80	250		1,5	1,6	2	2,5	2,5	3,3	4	T	T	T	T	T	T	T
	100	400				2	2,5	2,5	3,3	4	5	T	T	T	T	T	T
NSX160DC	100	1000				2	2,5	2,5	5	T	T	T	T	T	T	T	T
TM-DC	125	1200					2,5	2,5	3,3	10	T	T	T	T	T	T	T
	160	1250					2,5	2,5	3,3	5	10	T	T	T	T	T	T
NSX160DC	125	530	1,25	1,5	1,6	2	2,5	2,5	3,3	10	T	T	T	T	T	T	T
TM-G	160	530	1,25	1,5	1,6	2	2,5	2,5	3,3	5	10	T	T	T	T	T	T
NSX250DC	200	1000				2	2,5	2,5	5	T	T	T	T	T	T	T	T
TM-DC		2000								4	5	T	T	T	T	T	T
	250	1250					2,5	2,5	3,3	5	10	T	T	T	T	T	T
		2500						2,5	3,3	4	5	T	T	T	T	T	T
NSX250DC	200	530	1,25	1,5	1,6	2	2,5	2,5	5	T	T	T	T	T	T	T	T
TM-G	250	625		1,5	1,6	2	2,5	2,5	3,3	5	10	T	T	T	T	T	T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Masterpact NW DC
Downstream: Compact NSX400/630/1200 DC, Masterpact NW DC

110 - 125V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NW10DC -C N/H					NW10DC -C N/H					NW10DC -C N/H				
							NW20DC -C N/H					NW20DC -C N/H				
												NW40DC-C N/H				
		2P2D														
	Trip unit	Micrologic 1.0 DC														
		Range 1250/2500A					Range 2500/5400A					Range 5000/11000A				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Setting	1250	1500	1600	2000	2500	2500	3300	4000	5000	5400	5000	8000	10000	11000	11000

Downstream	Rating	Im	Selectivity limit (kA) [2]														
NSX400DC	250	635	1,25	1,5	1,6	2	2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
TM-DC		1250					2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
3P3D [1]	320	800			1,6	2	2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
		1600							3,3	4	5	5,4	5	10	T	T	T
	400	1000				2	2,5	2,5	3,3	4	5	5,4	5	10	T	T	T
		2000								4	5	5,4	5	10	T	T	T
NSX630DC	500	1250						2,5	3,3	4	5	5,4	5	T	T	T	T
TM-DC		2500									5	5,4	5	10	T	T	T
3P3D [1]	600	1500							3,3	4	5	5,4	5	10	T	T	T
		3000												10	T	T	T
NSX1200DC	630	1575							3,3	4	5	5,4	5	8	10	11	11
TM-DC		3150												8	10	11	11
3P3D [1]	800	2000								4	5	5,4	5	8	10	11	11
		4000												8	10	11	11
	1000	2500											5	8	10	11	11
		5000													10	11	11
	1200	3000												8	10	11	11
		6000														11	11
NW DC-C	1000	1250							3,3	4	5	5,4	5	8	10	11	11
		2500									5	5,4	5	8	10	11	11
	1000/2000	2500									5	5,4	5	8	10	11	11
		5400													10	11	11
	1000/2000/4000	5000													10	11	11
		11000															

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: C120, NG125 curves B, C, D
Downstream: C60H-DC curve C

220, 250 V DC [3]

Time constant (L/R):1.5 ms to 25 ms

Upstream		C120N/H/L, NG125N/H/L, 2P, 3P or 4P [1]										
		Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**Rating (A)**	**Selectivity limit (A) [2]**										
C60H-DC	0.5	500	T	T	T	T	T	T	T	T	T	T
1P or 2P [1]	1		250	500	750	1500	T	T	T	T	T	T
C Curves	2				600	900	2000	3000	3500	5500	T	T
	3						1300	1500	1800	3000	5000	T
	4							1000	1200	1700	2800	5000
	6									1400	2000	3200
	10										1400	2300
	16											2000
	≥ 20											

Upstream		C120N/H/L, NG125N/H/L, 2P, 3P or 4P [1]										
		Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**Rating (A)**	**Selectivity limit (A) [2]**										
C60H-DC	0.5	T	T	T	T	T	T	T	T	T	T	T
1P or 2P [1]	1	300	1700	6000	T	T	T	T	T	T	T	T
C Curves	2		1000	1600	6000	T	T	T	T	T	T	T
	3			1000	3000	4000	5000	T	T	T	T	T
	4					2500	3500	2500	4500	T	T	T
	6							1000	2500	T	T	T
	10								1700	4000	6000	8000
	16								1000	2500	4500	6000
	20									2000	3500	4500
	25										3000	4000
	≥ 32											

Upstream		C120N/H/L, NG125N/H/L, 2P, 3P or 4P [1]										
		Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream												
Circuit breaker	**Rating (A)**	**Selectivity limit (A) [2]**										
C60H-DC	0.5	T	T	T	T	T	T	T	T	T	T	T
1P or 2P [1]	1	1400	T	T	T	T	T	T	T	T	T	T
C Curves	2	800	3000	6000	T	T	T	T	T	T	T	T
	3			3500	5000	T	T	T	T	T	T	T
	4			1000	3000	5000	6000	T	T	T	T	T
	6					2000	2500	3500	4500	T	T	T
	10							2000	2500	8000	T	T
	16									6500	T	T
	20									4000	6000	T
	25										5500	7500
	32											5000
	≥ 40											

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).
[2] According to the voltage and number of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.
[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 3 and Case 4 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).
Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

T Total selectivity.

500 Selectivity limit = 500 A.

No selectivity.

Selectivity table

Upstream: Compact NSX100/160/250 TM-D, TM-DC
Downstream: C60H-DC, C120, NG125

220 - 250V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100DC								NSX160DC			NSX250 DC				
		1P1D 2P2D F/N/M/S 3P3D F/S [1]											3P3D (1 or 2 P used) F/S [1]				
	Trip unit	TMD, TM-DC								TMD, TM-DC			TM-DC				
	Rating	16	25	32	40	50	63	80	100	100	125	160	160	200		250	
	Im	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	Mini	Maxi	Mini	Maxi
		260	400	550	700	700	700	800	800	800	1250	1250	1250	1000	2000	1250	2500

Downstream	Rating	Selectivity limit (kA) [2]															
C60H-DC	0,5	5	10	10	10	T	T	T	T	T	T	T	T	T	T	T	T
C Curves	1	5	5	5	5	10	T	T	T	T	T	T	T	T	T	T	T
	2	0,26	0,4	0,55	0,7	5	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D [1]	3		0,4	0,55	0,7	0,7	T	T	T	T	T	T	T	T	T	T	T
	4			0,55	0,7	0,7	10	T	T	T	T	T	T	T	T	T	T
	5				0,7	0,7	10	10	T	T	T	T	T	T	T	T	T
	6					0,7	5	10	10	10	T	T	T	T	T	T	T
	10					0,7	5	5	5	5	T	T	T	T	T	T	T
	13						0,7	0,8	5	5	10	T	T	10	T	T	T
	15-16							0,8	0,8	5	10	10	10	5	T	T	T
	20								0,8	0,8	5	5	5	1	T	T	T
	25								0,8	0,8	5	5	5	1	T	T	T
	30-32										5	5	5		T	10	T
	40											5	5		T	5	T
	50														10		10
	63														5		5
C120 N/H	63											1,25	1,25		5	10	T
B-C-D Curves	80														2		T
2P2D or 4P4D [1]	100														2		T
	125																T
NG125 N/H/L	10		0,4	0,5	0,7	0,7	0,7	0,8	0,8	0,8	10	10	10	5	T	T	T
B-C-D Curves	16			0,5	0,7	0,7	0,7	0,8	0,8	0,8	10	10	10	1	T	T	T
2P2D or 4P4D [1]	20				0,7	0,7	0,7	0,8	0,8	0,8	10	10	10	1	T	T	T
	25						0,7	0,8	0,8	0,8	5	10	10	1	T	T	T
	32							0,8	0,8	0,8	1,25	5	5	1	T	T	T
	40								0,8	0,8	1,25	1,25	1,25	1	10	T	T
	50										1,25	1,25	1,25	1	5	T	T
	63											1,25	1,25		5	10	T
	80														2		T
	100 (N)														2		T
	125 (N)																T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Compact NSX100/160/250 DC TM-G
Downstream: C60H-DC, NG125

220 - 250 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100DC						NSX160DC			NSX250 DC		
		3P3D (1 or 2 P used) F/S [1]											
	Trip unit	TM-G						TM-G			TM-G		
	Rating	16	25	40	63	80	100	100	125	160	160	200	250
	Im	80	100	100	150	250	400	400	530	530	530	530	625

Downstream	In	Im	Selectivity limit (kA) [2]											
C60H-DC	0,5		5	5	5	5	5	5	5	T	T	T	T	T
C Curves	1		0,08	0,1	0,1	0,15	0,25	5	5	10	T	T	T	T
1P1D or 2P2D	2			0,1	0,1	0,15	0,25	0,4	0,4	10	10	10	T	T
[1]	3				0,1	0,15	0,25	0,4	0,4	5	10	10	10	T
	4					0,15	0,25	0,4	0,4	0,53	5	5	5	10
	5						0,25	0,4	0,4	0,53	0,53	0,53	0,53	5
	6							0,4	0,4	0,53	0,53	0,53	0,53	0,63
	10									0,53	0,53	0,53	0,53	0,63
	13									0,53	0,53	0,53	0,53	0,63
	15-16									0,53	0,53	0,53	0,53	0,63
	20									0,53	0,53	0,53	0,53	0,63
	25										0,53	0,53	0,53	0,63
	30-32													0,63
	40													
	50													
	63													
NG125 N/H/L	10													
B-C-D Curves	16													
2P2D or 4P4D	20													
[1]	25													
	32													
	40													

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Compact NSX100 - 250 DC TMD
Downstream: Compact NSX100 - 160 DC TMD, TMG

220 - 250 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100 DC								NSX160 DC				NSX250 DC				
	Trip unit	1P1D 2P2D F/N/M/S (3P3D F/S) [1]												3P3D (1 or 2 P Used) F/S [1]				
		TM-D								TM-D, TM-DC				TM-DC				
	Rating	16	25	32	40	50	63	80	100	80	100	125	160	160	200		250	
	Im	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	fixe	Mini	Maxi	Mini	Maxi
		260	400	550	700	700	700	640	800	640	800	1250	1250	1250	1000	2000	1250	2500

Downstream	Rating	Im	Selectivity limit (kA) [2]																
NSX100DC	16	260			0,5	0,7	0,7	0,7	0,7	0,8	0,8	0,8	1,25	1,25	1,25	1	2	1,25	5
TM-D	25	400				0,7	0,7	0,7	0,7	0,8	0,8	0,8	1,25	1,25	1,25	1	2	1,25	5
(TM-DC)	32	400						0,7	0,7	0,8	0,8	0,8	1,25	1,25	1,25	1	2	1,25	5
1P1D or 2P2PD (3P3D) [1]	40	700							0,7	0,8	0,8	0,8	1,25	1,25	1,25	1	2	1,25	2,5
	50	700							0,7	0,8	0,8	0,8	1,25	1,25	1,25	1	2	1,25	2,5
	63	700								0,8		0,8	1,25	1,25	1,25	1	2	1,25	2,5
	80	800											1,25	1,25	1,25	1	2	1,25	2,5
	100	1000											1,25	1,25	1,25	1	2	1,25	2,5
NSX100DC	16	80			0,5	0,7	0,7	0,7	0,7	0,8	0,8	0,8	1,25	1,25	1,25	1	2	1,25	10
TM-G	25	100				0,7	0,7	0,7	0,7	0,8	0,8	0,8	1,25	1,25	1,25	1	2	1,25	5
3P3D	40	100							0,7	0,8	0,8	0,8	1,25	1,25	1,25	1	2	1,25	5
[1]	63	150							0,7	0,8		0,8	1,25	1,25	1,25	1	2	1,25	5
	80	250								0,8			1,25	1,25	1,25	1	2	1,25	2,5
	100	400											1,25	1,25	1,25	1	2	1,25	2,5
NSX160DC TM-DC 1P1D or 2P2D 3P2D [1]	100	1000											1,25	1,25	1,25	1	2	1,25	2,5
	125	1200																1,25	2,5
	160	1250																	
NSX160DC	125	530																1,25	2,5
TM-G 3P3D [1]	160	530																	

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Compact NSX400/630/1200 DC TM-DC
Downstream: C60H-DC, C120, NG125

220 - 250V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			NSX400DC F/S						NSX630DC F/S				NSX1200DC N							
			3P3D (1 or 2 P Used) [1]										2P2D							
	Trip unit		TM-DC						TM-DC				TM-DC							
	Rating		250		320		400		500		600		630		800		1000		1200	
			min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Downstream	In	Im	625	1250	800	1600	1000	2000	1250	2500	1500	3000	1575	3150	2000	4000	2500	5000	3000	6000

Downstream	Rating	Im	Selectivity limit (kA) [2]																	
C60H-DC	0,5		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C curve	1		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	2		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	3		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4		15	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5		10	T	T	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T
	6		5	T	15	T	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	10		0,6	T	10	T	1	T	T	T	T	T	T	T	T	T	T	T	T	T
	13			10	5	10		10	10	T	10	T	10	T	10	T	T	T	T	T
	15-16			5	0,8	5		5	5	T	5	T	5	T	5	T	T	T	T	T
	20			1,25		1,6		5	1,25	T	1,5	T	1,5	T	5	T	T	T	T	T
	25							2		T		T		T	2	T	T	T	T	T
	30-32									T		T		T		T	T	T	T	T
	40									T		T		T		T	T	T	T	T
	50									T		T		T		T	T	T	T	T
	63									T		T		T		T	T	T	T	T
NG125 N/H/L	10		0,625	1,25	0,8	1,6	1	5	T	T	10	T	10	T	T	T	T	T	T	T
B-C-D Curves	16					1,6	1	2	5	T	5	T	5	T	T	T	T	T	T	T
2P2D or 4P4D	20							2	1,25	T	1,5	T	1,5	T	T	T	T	T	T	T
[1]	25									T		T		T	T	T	T	T	T	T
	32									T		T		T	10	T	T	T	T	T
	40									T		T		T	10	T	10	T	T	T
	50									T		T		T	5	T	10	T	T	T
	63									T		T		T		T	5	T	T	T
	80									5		T		T		T		T	T	T
	100 (N)									5		10		10		10		T	T	T
	125 (N)									5		5		5		5		T	T	T
C120 N/H	63									T		T		T		T	5	T	T	T
B-C-D Curves	80									5		T		T		T		T	T	T
2P2D or 4P4D	100									5		10		10		10		T	T	T
[1]	125									5		5		5		5		T	T	T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Compact NSX400/630/1200 DC TM-DC
Downstream: Compact NSX100/160 DC TM-D, TM-DC, TM-G

220 - 250V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX400DC F/S						NSX630DC F/S				NSX1200DC N							
	Trip unit	TM-DC						TM-DC				TM-DC							
	Rating	250		320		400		500		600		630		800		1000		1200	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
	Im	625	1250	800	1600	1000	2000	1250	2500	1500	3000	1575	3150	2000	4000	2500	5000	3000	6000

Downstream	Rating		Selectivity limit (kA) [2]																	
NSX100DC	16	260	0,63	1,25	0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	T
TM-D	25	400	0,63	1,25	1	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	10
(TM-DC)	32	400		1,25	1	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
1P1D or 2P2PD	40	700			1	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
(3P3D)	50	700				1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
[1]	63	700					1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
	80	800						2		2,5		3	1,5	3,1	2	4	2,5	5	3	6
	100	1000						2		2,5		3		3,1	2	4	2,5	5	3	6
NSX100DC	16	80	0,63	1,25	0,8	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	T
TM-G	25	100	0,63	1,25	1	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	10
3P3D [1]	40	100			1	1,6	1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
	63	150					1	2	1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	5	3	6
	80	250						2		2,5		3	1,5	3,1	2	4	2,5	5	3	6
	100	400						2		2,5		3	1,5	3,1	2	4	2,5	5	3	6
NSX160DC	100	1000						2		2,5		3	1,5	3,1	2	4	2,5	5	3	6
TM-DC	125	1200								2,5		3		3,1		4	2,5	4	3	6
1P1D or 2P2PD	160	1250								2,5		3		3,1		4	2,5	4	3	6
NSX160DC	125	530								2,5	1,5	3	1,5	3,1	2	4	2,5	4	3	6
TM-G 3P3D	160	530								2,5	1,5	3	1,5	3,1	2	4	2,5	4	3	6
NSX250DC	200	1000								2,5	1,5	3	1,5	3,1	2	4	2,5	4	3	6
TM-DC		2000										3		3,1		4	2,5	4	3	6
3P3D [1]	250	1250												3,1		4	2,5	4	3	6
		2500												3,1		4		4	3	6
NSX250DC	200	530							1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	4	3	6
TM-G 3P3D	250	625							1,25	2,5	1,5	3	1,5	3,1	2	4	2,5	4	3	6

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Masterpact NW DC
Downstream: C60H-DC, C120, NG125, Compact NSX100/160/250 DC

220 - 250V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NW10DC -C N/H					NW10DC -C N/H					NW10DC -C N/H				
							NW20DC -C N/H					NW20DC -C N/H				
												NW40DC-C N/H				
		2P2D														
	Trip unit	Micrologic 1.0 DC														
		Range 1250/2500A					Range 2500/5400A					Range 5000/11000A				
	Type	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Setting	1250	1500	1600	2000	2500	2500	3300	4000	5000	5400	5kA	8kA	10kA	11kA	11kA

Downstream	Rating	Im	Selectivity limit (kA) [2]														
C60H-DC [1]	0,5-63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H	63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
2P/2P or 4P4D	80		1,25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	100		1,25	1,5	T	T	T	T	T	T	T	T	T	T	T	T	T
	125		1,25	1,5	1,6	T	T	T	T	T	T	T	T	T	T	T	T
NG125 N/H/L	10-50		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
2P/2P or 4P4D	80		1,25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	100 (N)		1,25	1,5	T	T	T	T	T	T	T	T	T	T	T	T	T
	125 N)		1,25	1,5	1,6	T	T	T	T	T	T	T	T	T	T	T	T
NSX100DC N/H	16	260	1,25	1,5	1,6	2	2,5	2,5	10	T	T	T	T	T	T	T	T
TM-D	25	400	1,25	1,5	1,6	2	2,5	2,5	5	T	T	T	T	T	T	T	T
	32	400	1,25	1,5	1,6	2	2,5	2,5	3,3	10	T	T	T	T	T	T	T
1P1D or 2P2D	40	700		1,5	1,6	2	2,5	2,5	3,3	5	10	T	10	T	T	T	T
[1]	50	700		1,5	1,6	2	2,5	2,5	3,3	4	5	T	5	T	T	T	T
	63	700		1,5	1,6	2	2,5	2,5	3,3	4	5	10	5	T	T	T	T
TM-DC	80	800		1,5	1,6	2	2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
[1]	100	1000				2	2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
NSX100DC	16	80	1,25	1,5	1,6	2	2,5	2,5	10	T	T	T	T	T	T	T	T
TM-G	25	100	1,25	1,5	1,6	2	2,5	2,5	5	T	T	T	T	T	T	T	T
[1]	40	100		1,5	1,6	2	2,5	2,5	3,3	5	10	T	10	T	T	T	T
3P3D	63	150		1,5	1,6	2	2,5	2,5	3,3	4	5	10	5	T	T	T	T
	80	250		1,5	1,6	2	2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
	100	400				2	2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
NSX160DC	100	1000				2	2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
TM-DC 1P1D or 2P2D	125	1200					2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
[1]	160	1250					2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
NSX160DC	125	530	1,25	1,5	1,6	2	2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
TM-G 3P3D	160	530	1,25	1,5	1,6	2	2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
NSX250DC	200	1000				2	2,5	2,5	5	4	5	5,4	5	T	T	T	T
TM-DC		2000								4	5	5,4	5	T	T	T	T
[1]	250	1250					2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
3P3D		2500						2,5	3,3	4	5	5,4	5	T	T	T	T
NSX250DC	200	530	1,25	1,5	1,6	2	2,5	2,5	5	4	5	5,4	5	T	T	T	T
TM-G	250	625		1,5	1,6	2	2,5	2,5	3,3	4	5	5,4	5	T	T	T	T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Masterpact NW DC
Downstream: Compact NSX400/630/1200 DC, Masterpact NW DC

220 - 250V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NW10DC -C N/H					NW10DC -C N/H					NW10DC -C N/H				
							NW20DC -C N/H					NW20DC -C N/H				
												NW40DC-C N/H				
		2P2D														
	Trip unit	Micrologic 1.0 DC														
		Range 1250/2500A					Range 2500/5400A					Range 5000/11000A				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Setting	1250	1500	1600	2000	2500	2500	3300	4000	5000	5400	5000	8000	10000	11000	11000

Downstream	Rating	Im	Selectivity limit (kA) [2]														
NSX400DC	250	635	1,25	1,5	1,6	2	2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
TM-DC		1250					2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
3P3D [1]	320	800			1,6	2	2,5	2,5	3,3	4	5	5,4	5	T	T	T	T
		1600							3,3	4	5	5,4	5	10	T	T	T
	400	1000				2	2,5	2,5	3,3	4	5	5,4	5	10	T	T	T
		2000								4	5	5,4	5	10	10	11	11
NSX630DC	500	1250						2,5	3,3	4	5	5,4	5	10	10	11	11
TM-DC		2500									5	5,4	5	10	10	11	11
3P3D [1]	600	1500							3,3	4	5	5,4	5	10	10	11	11
		3000												10	10	11	11
NSX1200DC	630	1575							3,3	4	5	5,4	5	8	10	11	11
TM-DC		3150												8	10	11	11
3P3D [1]	800	2000								4	5	5,4	5	8	10	11	11
		4000												8	10	11	11
	1000	2500											5	8	10	11	11
		5000													10	11	11
	1200	3000												8	10	11	11
		6000														11	11
Masterpact	1000	1250							3,3	4	5	5,4	5	8	10	11	11
NW DC-C		2500									5	5,4	5	8	10	11	11
	1000/2000	2500									5	5,4	5	8	10	11	11
		5400													10	11	11
	1000/2000/4000	5000													10	11	11
		11000															

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Cascading (or Back-up protection)

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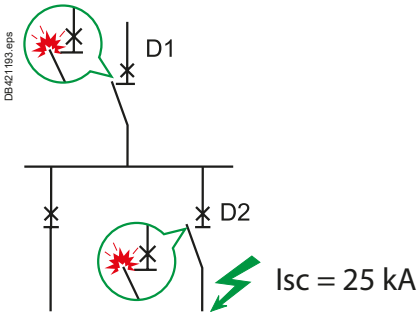
IEC 60947-2, Annex A
IEC 60364-4-43 (2008) § 434.5.1

What is cascading?

Cascading is the use of the current limiting capacity of circuit breakers at a given point to permit installation of lower-rated and therefore lower-cost circuit breakers downstream. Cascading is also called "Back-up" protection.
The upstream Compact circuit breakers acts as a barrier against short-circuit currents. In this way, downstream circuit breakers with lower breaking capacities than the prospective short-circuit (at their point of installation) operate under their normal breaking conditions.
Since the current is limited throughout the circuit controlled by the limiting circuit breaker, cascading applies to all switchgear downstream. It is not restricted to two consecutive devices.



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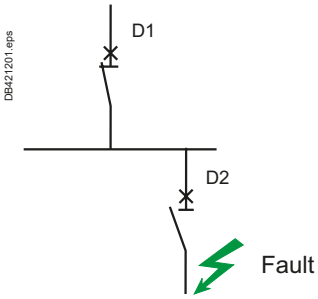

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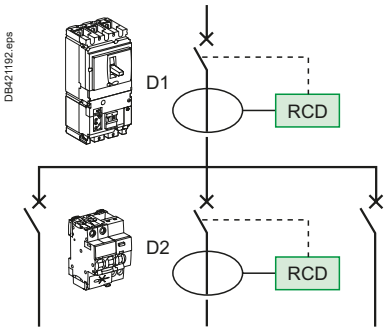
D1 and D2 in series.



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General use of cascading

With cascading, the devices can be installed in different switchboards. Thus, in general, cascading refers to any combination of circuit breakers where a circuit breaker with a breaking capacity less than the prospective Isc at its point of installation can be used. Of course, the breaking capacity of the upstream circuit breaker must be greater than or equal to the prospective short-circuit current at its point of installation.
The combination of two circuit breakers in cascading configuration is covered by the following standards of:

- design and manufacture of circuit breakers (IEC 60947-2, Annex A),
- electrical distribution networks (IEC 60364-4-43 Ed 3 2008 § 434.5.1).

Coordination between circuit breakers

The use of a protective device possessing a breaking capacity less than the prospective short-circuit current at its installation point is permitted as long as another device is installed upstream with at least the necessary breaking capacity.
In this case, the characteristics of the two devices must be coordinated in such a way that the energy let through by the upstream device is not more than that which can be withstood by the downstream device and the cables protected by these devices without damage.
Cascading can only be checked by laboratory tests and the possible combinations can be specified only by the circuit breaker manufacturer.

Cascading and protection selectivity

In cascading configurations, due to the Roto-active breaking technique, selectivity is maintained and, in some cases, even enhanced. Consult the enhanced selectivity tables on page 132 for data on selectivity limits.

Cascading tables

Schneider Electric cascading tables are:

- drawn up on the basis of calculations (comparison between the energy limited by the upstream device and the maximum permissible thermal stress for the downstream device)
- verified experimentally in accordance with IEC standard 60947-2.

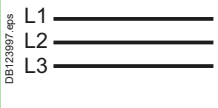
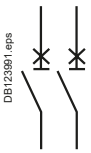
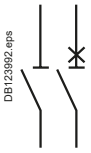
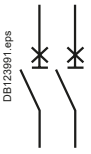
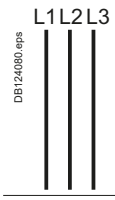
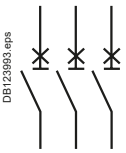
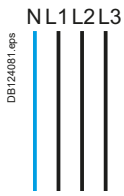
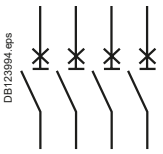
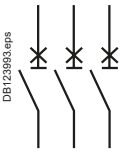
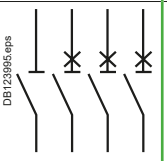
For 50/60 Hz distribution systems with 220-240 V, 380-415 V and 440 V between phases, the tables of the following pages indicate cascading possibilities between upstream Compact and downstream Acti 9 and Compact circuit breakers as well as between upstream Masterpact and downstream Compact circuit breakers.

Circuit breaker with Vigi module (Add-On Residual Current Device - RCD):
When circuit breakers are equipped with Vigi module, the following cascading tables are still applicable.

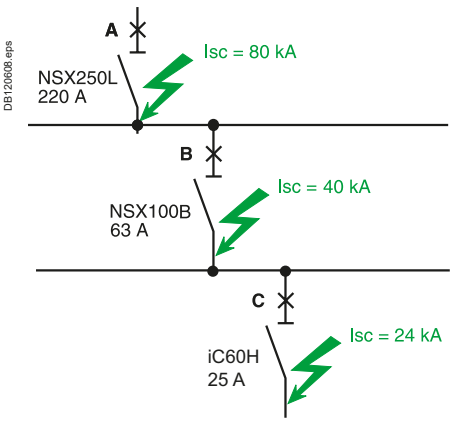
Using the cascading tables

This table takes in account all types of faults: between phases, phase and neutral, phase and earth in all earthing systems.
In IT the following cascading tables can not be used to evaluate performances in case of "double fault" between two different phases and earth in two different locations of the installation. Each breaker shall comply to IEC60947-2 Annex H to be used in such a system.
Depending on the network and the type of downstream circuit breaker, the selection table below indicates which table should be consulted to find out the cascading value.

Selection table

		Upstream network					
							
Type of Downstream network	**Type of Downstream protection device**	**Type of circuit breaker upstream device: 1P, 2P, 3P or 4P circuit breaker**					
		Ph/N 110-130 V	**Ph/N 220-240 V**	**Ph/N 110-130 V** **Ph/Ph 220-240 V**	**Ph/N 220-240 V** **Ph/Ph 380-415 V**	**Ph/Ph 220-240 V**	**Ph/Ph 380-415 V**
	 2P	See table Ue: 220-240 V	**[1]** See table Ue: 380-415 V	See table Ue: 220-240 V	**[1]** See table Ue: 380-415 V		
	1P  1P + N	See table Ue: 220-240 V	**[2]** See table Ue: 380-415 V	See table Ue: 220-240 V	**[2]** See table Ue: 380-415 V		
	 2P			See table Ue: 220-240 V	See table Ue: 380-415 V	See table Ue: 220-240 V	See table Ue: 380-415 V
	 3P			See table Ue: 220-240 V	See table Ue: 380-415 V	See table Ue: 220-240 V	See table Ue: 380-415 V
	 4P			See table Ue: 220-240 V	See table Ue: 380-415 V		
	 3P  3P+N			See table Ue: 220-240 V	See table Ue: 380-415 V		

[1] For fault phase-neutral with upstream protection of neutral, please consult the table Ue: 220-240 V.
[2] For iC60 1P+N circuit breaker connected between phase and neutral under 220-240 V, consult the table Ue: 220-240 V (only for faults between phase and neutral).



Example of three level cascading

Consider three circuit breakers A, B and C connected in series. The criteria for cascading are fulfilled in the following two cases:

- the upstream device A is coordinated for cascading with both devices B and C (even if the cascading criteria are not fulfilled between B and C). It is simply necessary to check that the combinations A + B and A + C have the required breaking capacity
- each pair of successive devices is coordinated, i.e. A with B and B with C (even if the cascading criteria are not fulfilled between A and C). It is simply necessary to check that the combinations A + B and B + C have the required breaking capacity.

The upstream breaker A is a NSX250L (breaking capacity 150 kA) for a prospective Isc of 80 kA across its output terminals.
A NSX100B (breaking capacity 25 kA) can be used for circuit breaker B for a prospective Isc of 40 kA across its output terminals, since the "reinforced" breaking capacity provided by cascading with the upstream NSX250L is 50 kA.
A iC60H (breaking capacity 15 kA) can be used for circuit breaker C for a prospective Isc of 24 kA across its output terminals since the "reinforced" breaking capacity provided by cascading with the upstream NSX250L is 25 kA.
Note that the "reinforced" breaking capacity of the iC60H with the NSX100B upstream is only 20 kA, but:

- A + B = 50 kA
- A + C = 25 kA.

Cascading
Contents

Downstream	Upstream							
Type	**iDPN**	**iC60**	**C120**	**NG125**	**NSXm**	**NSX100**	**NSX160**	**NSX250**
380-415 V (Ph/N 220-240 V)								
iDPN	page 120	page 120	page 120	page 120	page 120	page 120	page 121	page 121
iC60	-	page 120	page 120	page 120	page 120	page 120	page 121	page 121
C120	-	-	page 120	page 120	page 120	page 120	page 121	page 121
NG125	-	-	-	page 120	page 120	page 120	page 121	page 121
NSXm	-	-	-	-	page 120	page 120	page 121	page 121
NSX100	-	-	-	-	-	page 120	page 121	page 121
NSX160	-	-	-	-	-	-	page 121	page 121
NSX250	-	-	-	-	-	-	-	page 121
440 V								
iC60	-	page 124	-	page 124	page 124	page 124	page 125	-
NG125	-	-	-	page 124	page 124	page 124	page 125	page 125
NSXm	-	-	-	-	page 124	page 124	page 125	page 125
NSX100	-	-	-	-	-	page 124	page 125	page 125
NSX160	-	-	-	-	-	-	page 125	page 125
NSX250	-	-	-	-	-	-	-	page 125
220-240 V (Ph/N 110-130 V)								
iDPN	-	page 128	page 128	page 128	page 128	page 128	page 129	page 129
iC60	-	page 128	page 128	page 128	page 128	page 128	page 129	page 129
C120	-	-	page 128	page 128	page 128	page 128	page 129	page 129
NG125	-	-	-	page 128	page 128	page 128	page 129	page 129
NSXm	-	-	-	-	page 128	page 128	page 129	page 129
NSX100	-	-	-	-	-	page 128	page 129	page 129
NSX160	-	-	-	-	-	-	page 129	page 129
NSX250	-	-	-	-	-	-	-	page 129

Selectivity enhanced by cascading

Downstream	Upstream			
Type	**NSXm**	**NSX100**	**NSX160**	**NSX250**
380-415 V (Ph/N 220-240 V)				
iC60	page 133	page 133	page 135-136	page 135-136
C120	-	-	-	page 135-136
NG125	-	-	-	page 135-136
NSXm	-	-	-	page 135-136
NSX100	-	-	-	page 135-136
440 V				
NSXm	-	-	-	page 141-142
iC60	page 139	page 139	page 141-142	-
NG125	-	-	page 141-142	page 141-142
NSX100	-	-	-	page 141-142
220-240 V (Ph/N 110-130 V)				
iC60	-	page 146	page 145-146	page 145-146
C120	-	-	-	page 145-146
NG125	-	-	page 145	page 145-146
NSXm	-	-	-	page 147-148
NSX100	-	-	-	page 147-148

Cascading
Contents

Downstream	Upstream				
Type	NSX400	NSX630	NS630b	NS800 to 3200 H/L	Masterpact MTZ
380-415 V (Ph/N 220-240 V)					
NSXm	page 122	page 122	page 123	-	-
NSX100	page 122	page 122	page 123	page 123	page 123
NSX160	page 122	page 122	page 123	page 123	page 123
NSX250	page 122	page 122	page 123	page 123	page 123
NSX400	page 122	page 122	page 123	page 123	page 123
NSX630	-	page 122	page 123	page 123	page 123
NS630b	-	-	page 123	page 123	page 123
NS800	-	-	page 123	page 123	page 123
NS1000	-	-	page 123	page 123	page 123
NS1250	-	-	page 123	page 123	page 123
NS1600	-	-	page 123	page 123	page 123
440 V					
NSXm	page 126	page 126	-	-	-
NSX100	page 126	page 126	page 127	page 127	page 127
NSX160	page 126	page 126	page 127	page 127	page 127
NSX250	page 126	page 126	page 127	page 127	page 127
NSX400	page 126	page 126	page 127	page 127	page 127
NSX630	-	page 126	page 127	page 127	page 127
NS630b	-	-	page 127	page 127	page 127
NS800	-	-	page 127	page 127	page 127
NS1000	-	-	page 127	page 127	page 127
NS1250	-	-	page 127	page 127	page 127
NS1600	-	-	page 127	page 127	page 127
220-240 V (Ph/N 110-130 V)					
NSXm	page 130	page 130	-	-	-
NSX100	page 130	page 130	page 131	page 131	page 131
NSX160	page 130	page 130	page 131	page 131	page 131
NSX250	page 130	page 130	page 131	page 131	page 131
NSX400	page 130	page 130	page 131	page 131	page 131
NSX630	-	page 130	page 131	page 131	page 131
NSX630b			page 131	page 131	page 131

Selectivity enhanced by cascading

Downstream	Upstream					
Type	NSX400	NSX630	NS800	NS1000	NS1250	NS1600
380-415 V (Ph/N 220-240 V)						
NSXm	page 137	page 137	-	-	-	-
NSX100	page 137	page 137	page 138	page 138	page 138	page 138
NSX160	page 137	page 137	page 138	page 138	page 138	page 138
NSX250	-	page 137	page 138	page 138	page 138	page 138
NSX400	-	-	page 138	page 138	page 138	page 138
NSX630	-	-	page 138	page 138	page 138	page 138
440 V						
NSXm	page 143	page 143	-	-	-	-
NSX100	page 143	page 143	page 144	page 144	page 144	page 144
NSX160	page 143	page 143	page 144	page 144	page 144	page 144
NSX250	page 143	page 143	page 144	page 144	page 144	page 144
NSX400	-	-	page 144	page 144	page 144	page 144
NSX630	-	-	page 144	page 144	page 144	page 144
220-240 V (Ph/N 110-130 V)						
NSXm	page 148	page 148	-	-	-	-
NSX100	page 148	page 148	page 148	page 148	-	-
NSX160	page 148	page 148	page 148	page 148	-	-
NSX250	-	page 148	page 148	page 148	-	-
NSX400	-	page 148	page 148	page 148	-	-
NSX630	-	-	-	page 148	-	-

Cascading

Upstream: iDPN, iC60, C120, NG125, Compact NSXm, NSX100
Downstream: iDPN, iC60, C120, NG125, Compact NSXm, NSX100

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream CB	iDPN	iC60					C120		NG125		
	N	N	H	L			N	H	N	H	L
				≤ 25 A	32/40 A	50/63 A					
Icu (kA)	10	10	15	25	20	15	10	15	25	36	50
Downstream CB											
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)										
iDPN [1]	1-16	6	10	10	10	20	15	10	10	10	10	16	20
	25-40	6	10	10	10	15	10	10	10	10	10	16	20
iDPN N [1]	1-16	10			15	25	20	15		15	20	20	25
	25-40	10			15	20	15	15		15	16	20	25
iC60N	0,5-25	10			15	25	20	15		15	25	25	25
	32-40	10			15		20	15		15	25	25	25
	50-63	10			15			15		15	25	25	25
iC60H	0,5-25	15				25	20				25	36	36
	32-40	15					20				25	36	36
	50-63	15									25	36	36
iC60L	0,5-25	25										36	50
	32-40	20									25	36	50
	50-63	15									25	36	36
C120N	63-125	10								15	25	25	36
C120H	63-125	15									25	25	36
NG125N	1-125	25										36	36
NG125H	1-125	36											50

Upstream CB	NSXm					NSX100					
	E	B	F	N	H	B	F	N	H	S	L
Icu (kA)	16	25	36	50	70	25	36	50	70	100	150
Downstream CB											
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)										
iDPN [1]	1-40	6	10	10	10	10	10	10	10	10	10	10	10
iDPNN [1]	1-16	10	16	20	20	20	20	20	20	20	20	20	20
	25-40	10	16	16	16	16	16	16	16	16	16	16	16
iC60N	0,5-40	10	16	20	25	30	30	20	25	30	30	30	30
	50-63	10	16	20	25	30	30	20	25	30	30	30	30
iC60H	0,5-40	15	16	25	36	36	36	25	36	40	40	40	40
	50-63	15	16	25	36	36	36	25	36	40	40	40	40
iC60L	0,5-25	25			36	36	36		36	40	40	40	40
	32-40	20		25	36	36	36	25	36	40	40	40	40
	50-63	15	16	25	36	36	36	25	36	40	40	40	40
C120N	63-125	10	16	25	25	25	25	25	25	25	25	25	25
C120H	63-125	15	16	25	25	25	25	25	25	25	25	25	25
NG125N	1-125	25			36	36	36		36	36	36	50	70
NG125H	1-125	36				40	50			40	50	70	100
NG125L	1-80	50					70				70	100	150
NSXm E	16-160	16		25	30	30	30	25	25	30	30	30	30
NSXm B	16-160	25			36	36	50		36	36	50	50	50
NSXm F	16-160	36				50	70			50	70	70	70
NSXm N	16-160	50					70				70	70	70
NSXm H	16-160	70											
NSX100B	16-100	25							36	36	50	50	50
NSX100F	16-100	36								50	70	100	150
NSX100N	16-100	50									70	100	150
NSX100H	16-100	70										100	150
NSX100S	16-100	100											150

[1] 230 V phase to neutral

Cascading table

Upstream: Compact NSX160, NSX250
Downstream: iDPN, iC60, C120, NG125, Compact NSXm, NSX100, NSX160, NSX250

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream CB			NSX160						NSX250					
			B	F	N	H	S	L	B	F	N	H	S	L
		Icu (kA)	25	36	50	70	100	150	25	36	50	70	100	150
Downstream CB														
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)											
iDPN [1]	**1-40**	**6**	10	10	10	10	10	10	10	10	10	10	10	10
iDPN N [1]	**1-16**	**10**	20	20	20	20	20	20	20	20	20	20	20	20
	25-40	**10**	16	16	16	16	16	16	16	16	16	16	16	16
iC60N	**0,5-40**	**10**	20	25	30	30	30	30	20	25	30	30	30	30
	50-63	**10**	20	25	30	30	30	30	20	25	25	25	25	25
iC60H	**0,5-40**	**15**	25	36	40	40	40	40	25	30	30	30	30	30
	50-63	**15**	25	36	36	36	36	36	25	25	25	25	25	25
iC60L	**0,5-25**	**25**	25	36	40	40	40	40	25	30	30	30	30	30
	32-40	**20**	25	36	40	40	40	40	25	30	30	30	30	30
	50-63	**15**	25	36	36	36	36	36	25	25	25	25	25	25
C120N	**63-125**	**10**	25	25	25	25	25	25	25	25	25	25	25	25
C120H	**63-125**	**15**	25	25	25	25	25	25	25	25	25	25	25	25
NG125N	**1-125**	**25**		36	36	36	50	70		36	36	36	50	70
NG125H	**1-125**	**36**			40	50	70	100			40	50	70	100
NG125L	**1-80**	**50**			50	70	100	150			50	70	100	150
NSXm E	**16-160**	**16**	25	25	30	30	30	30	25	25	30	30	30	30
NSXm B	**16-160**	**25**		36	36	50	50	50		36	36	50	50	50
NSXm F	**16-160**	**36**			50	70	70	70			50	70	70	70
NSXm N	**16-160**	**50**				70	70	70				70	70	70
NSXm H	**16-160**	**70**												
NSX100B	**16-100**	**25**		36	36	50	50	50		36	36	50	50	50
NSX100F	**16-100**	**36**			50	70	100	150			50	70	100	150
NSX100N	**16-100**	**50**				70	100	150				70	100	150
NSX100H	**16-100**	**70**					100	150					100	150
NSX100S	**16-100**	**100**						150						150
NSX100L	**16-100**	**150**												
NSX160B	**16-160**	**25**		36	36	50	50	50		36	36	50	50	50
NSX160F	**16-160**	**36**			50	70	100	150			50	70	100	150
NSX160N	**16-160**	**50**				70	100	150				70	100	150
NSX160H	**16-160**	**70**					100	150					100	150
NSX160S	**16-160**	**100**						150						150
NSX160L	**16-160**	**150**												
NSX250B	**16-250**	**25**								36	36	50	50	50
NSX250F	**16-250**	**36**									50	70	100	150
NSX250N	**16-250**	**50**										70	100	150
NSX250H	**16-250**	**70**											100	150
NSX250S	**16-250**	**100**												150
NSX250L	**16-250**	**150**												

[1] 230 V phase to neutral

Cascading

Upstream: Compact NSX400, NSX630
Downstream: Compact NSXm, NSX100, NSX160, NSX250, NSX400, NSX630

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream CB			NSX400					NSX630				
			F	N	H	S	L	F	N	H	S	L
		Icu (kA)	36	50	70	100	150	36	50	70	100	150
Downstream CB												
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)									
NSXm E	16-160	16	25	30	30	30	30	25	30	30	30	30
NSXm B	16-160	25	36	36	50	50	50	36	36	50	50	50
NSXm F	16-160	36		50	70	70	70		50	70	70	70
NSXm N	16-160	50			70	70	70			70	70	70
NSXm H	16-160	70										
NSX100B	16-100	25	36	36	50	50	50	36	36	50	50	50
NSX100F	16-100	36		50	70	100	150		50	70	100	150
NSX100N	16-100	50			70	100	150			70	100	150
NSX100H	16-100	70				100	150				100	150
NSX100S	16-100	100					150					150
NSX100L	16-100	150										
NSX160B	16-160	25	36	36	50	50	50	36	36	50	50	50
NSX160F	16-160	36		50	70	100	150		50	70	100	150
NSX160N	16-160	50			70	100	150			70	100	150
NSX160H	16-160	70				100	150				100	150
NSX160S	16-160	100					150					150
NSX160L	16-160	150										
NSX250B	16-250	25	36	36	50	50	50	36	36	50	50	50
NSX250F	16-250	36		50	70	100	150		50	70	100	150
NSX250N	16-250	50			70	100	150			70	100	150
NSX250H	16-250	70				100	150				100	150
NSX250S	16-250	100					150					150
NSX250L	16-250	150										
NSX400F	250-400	36		50	70	100	150		50	70	100	150
NSX400N	250-400	50			70	100	150			70	100	150
NSX400H	250-400	70				100	150				100	150
NSX400S	250-400	100					150					150
NSX400L	250-400	150										
NSX630F	250-630	36							50	70	100	150
NSX630N	250-630	50								70	100	150
NSX630H	250-630	70									100	150
NSX630S	250-630	100										150
NSX630L	250-630	150										

Cascading

Upstream: Compact NS630b-1600, Compact NS1600-3200, Masterpact MTZ
Downstream: Compact NSX, Compact NS630b-1600

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream CB	NS630b-1600				NS1600-3200		MTZ1	MTZ2
	N	H	L [1]	LB [2]	N	H	L1	L1
Icu (kA)	50	70	150	200	70	85	150	150

Downstream CB										
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)							
NSX100B	16-100	25	50	50	50	50			50	
NSX100F	16-100	36	50	70	150	150			150	
NSX100N	16-100	50		70	150	150			150	
NSX100H	16-100	70			150	150			150	
NSX100S	16-100	100			150	200			150	
NSX100L	16-100	150				200				
NSX160B	16-160	25	50	50	50	50			50	
NSX160F	16-160	36	50	70	150	150			150	
NSX160N	16-160	50		70	150	150			150	
NSX160H	16-160	70			150	150			150	
NSX160S	16-160	100			150	200			150	
NSX160L	16-160	150				200				
NSX250B	16-250	25	50	50	50	50			50	
NSX250F	16-250	36	50	70	150	150			150	
NSX250N	16-250	50		70	150	150			150	
NSX250H	16-250	70			150	150			150	
NSX250S	16-250	100			150	200			150	
NSX250L	16-250	150				200				
NSX400F	250-400	36	50	70	150	150			150	
NSX400N	250-400	50		70	150	150			150	
NSX400H	250-400	70			150	150			150	
NSX400S	250-400	100			150	200			150	
NSX400L	250-400	150				200				
NSX630F	250-630	36	50	70	150	150			150	
NSX630N	250-630	50		70	150	150			150	
NSX630H	250-630	70			150	150			150	
NSX630S	250-630	100			150	200			150	
NSX630L	250-630	150				200				
NS630b-1600N	630-1600	50		70	150	200	70	70	150	65
NS630b-1600H	630-1600	70			150	200			150	

[1] Compact NS630bL, NS800L, NS1000L
[2] Compact NS630bLB, NS800LB

Cascading

Upstream: iC60, NG125, Compact NSXm, NSX100
Downstream: iC60, NG125, Compact NSXm, NSX100

Ue: 440 V AC

Upstream CB	iC60					NG125		
	N	H	L			N	H	L
			≤ 25 A	32-40 A	50-63 A			
Icu (kA)	6	10	20	15	10	20	30	40

Downstream CB										
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)							
iC60N	0,5-63	6		10	20	15	10	20	20	20
iC60H	0,5-63	10			20	15		20	25	25
iC60L	0,5-25	20							30	40
	32-40	15						20	30	30
	50-63	10						20	25	25
NG125N	1-125	20							30	40
NG125H	1-125	30								40

Upstream CB	NSXm					NSX100					
	E	B	F	N	H	B	F	N	H	S	L
Icu (kA)	15	20	35	50	65	20	35	50	65	90	130

Downstream CB													
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)										
iC60N	0,5-63	6	10	15	15	20	20	15	15	20	20	20	20
iC60H	0,5-63	10		20	20	25	25	20	20	25	25	25	25
iC60L	0,5-25	20				25	25			25	25	25	25
	32-40	15		20	20	25	25	20	20	25	25	25	25
	50-63	10		20	20	25	25	20	20	25	25	25	25
NG125N	1-125	20			35	35	35		35	35	35	50	65
NG125H	1-125	30			35	40	50		35	40	50	65	90
NG125L	1-80	40				50	65			50	65	90	130
NSXm E	16-160	15		20	30	30	30	20	20	30	30	30	30
NSXm B	16-160	20			35	35	50		35	35	50	50	50
NSXm F	16-160	35				50	65			50	65	65	65
NSXm N	16-160	50					65				65	65	65
NSXm H	16-160	65											
NSX100B	16-100	20							35	35	50	50	50
NSX100F	16-100	35								50	65	90	130
NSX100N	16-100	50									65	90	130
NSX100H	16-100	65										90	130
NSX100S	16-100	90											130

Cascading

Upstream: Compact NSX160, NSX250
Downstream: iC60, NG125, Compact NSXm, NSX100, NSX160, NSX250

Ue: 440 V AC

Upstream CB			NSX160						NSX250					
			B	F	N	H	S	L	B	F	N	H	S	L
		Icu (kA)	20	35	50	65	90	130	20	35	50	65	90	130
Downstream CB														
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)											
iC60N	**0,5-63**	**6**	15	15	20	20	20	20						
iC60H	**0,5-63**	**10**	20	20	25	25	25	25						
iC60L	**0,5-25**	**20**			25	25	25	25						
	32-40	**15**	20	20	25	25	25	25						
	50-63	**10**	20	20	25	25	25	25						
NG125N	**1-125**	**20**		35	35	35	50	65		35	35	35	50	65
NG125H	**1-125**	**30**		35	40	50	65	90		35	40	50	65	90
NG125L	**1-80**	**40**			50	65	90	130			50	65	90	130
NSXm E	**16-160**	**15**	20	20	30	30	30	30	20	20	30	30	30	30
NSXm B	**16-160**	**20**		35	35	50	50	50		35	35	50	50	50
NSXm F	**16-160**	**35**			50	65	65	65			50	65	65	65
NSXm N	**16-160**	**50**				65	65	65				65	65	65
NSXm H	**16-160**	**65**												
NSX100B	**16-100**	**20**		35	35	50	50	50		35	35	50	50	50
NSX100F	**16-100**	**35**			50	65	90	130			50	65	90	130
NSX100N	**16-100**	**50**				65	90	130				65	90	130
NSX100H	**16-100**	**65**					90	130					90	130
NSX100S	**16-100**	**90**						130						130
NSX100L	**16-100**	**130**												
NSX160B	**16-160**	**20**		35	35	50	50	50		35	35	50	50	50
NSX160F	**16-160**	**35**			50	65	90	130			50	65	90	130
NSX160N	**16-160**	**50**				65	90	130				65	90	130
NSX160H	**16-160**	**65**					90	130					90	130
NSX160S	**16-160**	**90**						130						130
NSX160L	**16-160**	**130**												
NSX250B	**16-250**	**20**								35	35	50	50	50
NSX250F	**16-250**	**35**									50	65	90	130
NSX250N	**16-250**	**50**										65	90	130
NSX250H	**16-250**	**65**											90	130
NSX250S	**16-250**	**90**												130
NSX250L	**16-250**	**130**												

Cascading

Upstream: Compact NSX400, NSX630
Downstream: Compact NSXm, NSX100, NSX160, NSX250, NSX400, NSX630

Ue: 440 V AC

Upstream CB	NSX400					NSX630				
	F	N	H	S	L	F	N	H	S	L
Icu (kA)	30	42	65	90	130	30	42	65	90	130

Downstream CB											
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)								
NSXm E	16-160	10	20	30	30	30	30	20	30	30	30	30
NSXm B	16-160	20	30	30	50	50	50	30	30	50	50	50
NSXm F	16-160	35		42	65	65	65		42	65	65	65
NSXm N	16-160	50			65	65	65			65	65	65
NSXm H	16-160	65										
NSX100B	16-100	20	30	30	50	50	50	30	30	50	50	50
NSX100F	16-100	35		42	65	90	130		42	65	90	130
NSX100N	16-100	50			65	90	130			65	90	130
NSX100H	16-100	65				90	130				90	130
NSX100S	16-100	90					130					130
NSX100L	16-100	130										
NSX160B	16-160	20	30	30	50	50	50	30	30	50	50	50
NSX160F	16-160	35		42	65	90	130		42	65	90	130
NSX160N	16-160	50			65	90	130			65	90	130
NSX160H	16-160	65				90	130				90	130
NSX160S	16-160	90					130					130
NSX160L	16-160	130										
NSX250B	16-250	20	30	30	50	50	50	30	30	50	50	50
NSX250F	16-250	35		42	65	90	130		42	65	90	130
NSX250N	16-250	50			65	90	130			65	90	130
NSX250H	16-250	65				90	130				90	130
NSX250S	16-250	90					130					130
NSX250L	16-250	130										
NSX400F	250-400	30		42	65	90	130		42	65	90	130
NSX400N	250-400	42			65	90	130			65	90	130
NSX400H	250-400	65				90	130				90	130
NSX400S	250-400	90					130					130
NSX400L	250-400	130										
NSX630F	250-630	30							42	65	90	130
NSX630N	250-630	42								65	90	130
NSX630H	250-630	65									90	130
NSX630S	250-630	90										130
NSX630L	250-630	130										

Cascading

Upstream: Compact NS630b-1600, Compact NS1600-3200, Masterpact MTZ
Downstream: Compact NSX, Compact NS630b-1600

Ue: 440 V AC

Upstream CB	NS630b-1600				NS1600-3200		MTZ1	MTZ2
	N	H	L [1]	LB [2]	N	H	L1	L1
Icu (kA)	50	65	130	200	65	85	130	150

Downstream CB										
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)							
NSX100B	16-100	20	50	50	50	50			50	
NSX100F	16-100	35	50	65	130	130			130	
NSX100N	16-100	50		65	130	130			130	
NSX100H	16-100	65			130	130			130	
NSX100S	16-100	90			130	200			130	
NSX100L	16-100	130				200				
NSX160B	16-160	20	50	50	50	50			50	
NSX160F	16-160	35	50	65	130	130			130	
NSX160N	16-160	50		65	130	130			130	
NSX160H	16-160	65			130	130			130	
NSX160S	16-160	90			130	200			130	
NSX160L	16-160	130				200				
NSX250B	16-250	20	50	50	50	50			50	
NSX250F	16-250	35	50	65	130	130			130	
NSX250N	16-250	50		65	130	130			130	
NSX250H	16-250	65			130	130			130	
NSX250S	16-250	90			130	200			130	
NSX250L	16-250	130				200				
NSX400F	250-400	30	50	65	130	130			130	
NSX400N	250-400	42		65	130	130			130	
NSX400H	250-400	65			130	130			130	
NSX400S	250-400	90			130	200			130	
NSX400L	250-400	130				200				
NSX630F	250-630	30	50	65	130	130			130	
NSX630N	250-630	42		65	130	130			130	
NSX630H	250-630	65			130	130			130	
NSX630S	250-630	90			130	200			130	
NSX630L	250-630	130				200				
NS630b-1600N	630-1600	50		65	130	200	65	65	130	65
NS630b-1600H	630-1600	65			130	200			130	

[1] Compact NS630bL, NS800L, NS1000L
[2] Compact NS630bLB, NS800LB

Cascading

Upstream: iC60, C120, NG125, Compact NSXm, NSX100
Downstream: iDPN, iC60, C120, NG125, Compact NSXm, NSX100

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream CB	iC60					C120		NG125		
	N	H	L			N	H	N	H	L
Icu (kA)	20	30	50	36	30	20	30	50	70	100

Downstream CB												
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)									
iDPN	1-40	10	15	20	30	25	20	15	20	20	40	50
iDPN N	1-40	15	20	30	50	36	30	20	30	30	40	50
iC60N	0,5-25	20		30	50	36	30		30	50	50	50
	32-40	20		30		36	30		30	50	50	50
	50-63	20		30			30		30	50	50	50
iC60H	0,5-25	30			50	36				50	70	70
	32-40	30				36				50	70	70
	50-63	30								50	70	70
iC60L	0,5-25	50									70	100
	32-40	36								50	70	100
	50-63	30								50	70	100
C120N	63-125	20							30	50	70	70
C120H	63-125	30								50	70	70
NG125N	1-125	50									70	70
NG125H	1-125	70										100

Upstream CB	NSXm					NSX100					
	E	B	F	N	H	B	F	N	H	S	L
Icu (kA)	25	50	85	90	100	40	85	90	100	120	150

Downstream CB												
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)									
iDPN	1-40	10	20	20	20	20	20	20	20	20	20	20
iDPN N	1-40	15	30	30	30	30	30	30	30	30	30	30
iC60N	0,5-63	20	25	40	60	60	60	40	40	60	60	60	60
iC60H	0,5-63	30		50	80	80	80	40	50	80	80	80	80
iC60L	0,5-25	50			80	80	80		65	80	80	80	80
	32-40	36		50	80	80	80	40	65	80	80	80	80
	50-63	30		50	80	80	80	40	65	80	80	80	80
C120N	63-125	20	25	50	50	50	50	40	40	50	50	70	70
C120H	63-125	30		50	50	50	50	40	40	50	50	70	70
NG125N	1-125	50			60	70	70		60	70	70	85	85
NG125H	1-125	70			85	85	85		85	85	85	85	85
NG125L	1-80	100											
NSXm E	16-160	25		50	85	85	85	40	85	85	85	85	85
NSXm B	16-160	50			85	90	100		85	90	100	100	100
NSXm F	16-160	85				90	100			90	100	100	100
NSXm N	16-160	90					100				100	100	100
NSXm H	16-160	100											
NSX100B	16-100	40							85	90	90	100	100
NSX100F	16-100	85								90	100	120	120
NSX100N	16-100	90									100	120	150
NSX100H	16-100	100										120	150
NSX100S	16-100	120											150

Cascading

Upstream: Compact NSX160, NSX250
Downstream: iDPN, iC60, C120, NG125, Compact NSXm, NSX100, NSX160, NSX250

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream CB			NSX160						NSX250					
			B	F	N	H	S	L	B	F	N	H	S	L
		Icu (kA)	40	85	90	100	120	150	40	85	90	100	120	150
Downstream CB														
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)											
iDPN	**1-40**	**10**	20	20	20	20	20	20	20	20	20	20	20	20
iDPN N	**1-16**	**15**	30	30	30	30	30	30	30	30	30	30	30	30
	25-40	**15**	30	30	30	30	30	30	30	30	30	30	30	30
iC60N	**0,5-40**	**20**	40	40	60	60	60	60	40	40	60	60	60	60
	50-63	**20**	40	40	60	60	60	60	40	40	60	60	60	60
iC60H	**0,5-40**	**30**	40	50	80	80	80	80	40	50	65	65	65	65
	50-63	**30**	40	50	80	80	80	80	40	50	65	65	65	65
iC60L	**0,5-25**	**50**		65	80	80	80	80		65	80	80	80	80
	32-40	**36**	40	65	80	80	80	80	40	65	80	80	80	80
	50-63	**30**	40	65	80	80	80	80	40	50	65	65	65	65
C120N	**63-125**	**20**	40	40	50	50	70	70	40	40	50	50	70	70
C120H	**63-125**	**30**	40	40	50	50	70	70	40	40	50	50	70	70
NG125N	**1-125**	**50**		60	70	70	85	85		60	70	70	85	85
NG125H	**1-125**	**70**		85	85	85	85	85		85	85	85	85	85
NG125L	**1-80**	**100**												
NSXm E	**16-160**	**25**	40	85	85	85	85	85	40	85	85	85	85	85
NSXm B	**16-160**	**50**		85	90	100	100	100		85	90	100	100	100
NSXm F	**16-160**	**85**			90	100	100	100			90	100	100	100
NSXm N	**16-160**	**90**				100	100	100				100	100	100
NSXm H	**16-160**	**100**												
NSX100B	**16-100**	**40**		85	90	90	100	100		85	90	90	100	100
NSX100F	**16-100**	**85**			90	100	120	120			90	100	120	120
NSX100N	**16-100**	**90**				100	120	150				100	120	150
NSX100H	**16-100**	**100**					120	150					120	150
NSX100S	**16-100**	**120**						150						150
NSX100L	**16-100**	**150**												
NSX160B	**16-160**	**40**		85	90	90	100	100		85	90	90	100	100
NSX160F	**16-160**	**85**			90	100	120	120			90	100	120	120
NSX160N	**16-160**	**90**				100	120	150				100	120	150
NSX160H	**16-160**	**100**					120	150					120	150
NSX160S	**16-160**	**120**						150						150
NSX160L	**16-160**	**150**												
NSX250B	**16-250**	**40**								85	90	90	100	100
NSX250F	**16-250**	**85**									90	100	120	120
NSX250N	**16-250**	**90**										100	120	150
NSX250H	**16-250**	**100**											120	150
NSX250S	**16-250**	**120**												150
NSX250L	**16-250**	**150**												

Cascading

Upstream: Compact NSX400, NSX630
Downstream: Compact NSX100, NSX160, NSX250, NSX400, NSX630

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream CB	NSX400					NSX630				
	F	N	H	S	L	F	N	H	S	L
Icu (kA)	40	85	100	120	150	40	85	100	120	150

Downstream CB											
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)								
NSX100B	16-100	40		85	90	100	100		85	90	100	100
NSX100F	16-100	85			100	120	150			100	120	150
NSX100N	16-100	90			100	120	150			100	120	150
NSX100H	16-100	100				120	150				120	150
NSX100S	16-100	120					150					150
NSX100L	16-100	150										
NSX160B	16-160	40		85	90	100	100		85	90	100	100
NSX160F	16-160	85			100	120	150			100	120	150
NSX160N	16-160	90			100	120	150			100	120	150
NSX160H	16-160	100				120	150				120	150
NSX160S	16-160	120					150					150
NSX160L	16-160	150										
NSX250B	16-250	40		85	90	100	100		85	90	100	100
NSX250F	16-250	85			100	120	150			100	120	150
NSX250N	16-250	90			100	120	150			100	120	150
NSX250H	16-250	100				120	150				120	150
NSX250S	16-250	120					150					150
NSX250L	16-250	150										
NSX400F	250-400	40		85	100	120	150		85	100	120	150
NSX400N	250-400	85			100	120	150			100	120	150
NSX400H	250-400	100				120	150			100	120	150
NSX400S	250-400	120					150				120	150
NSX400L	250-400	150										
NSX630F	250-630	40							85	100	120	150
NSX630N	250-630	85								100	120	150
NSX630H	250-630	100								100	120	150
NSX630S	250-630	120									120	150
NSX630L	250-630	150										

Cascading

Upstream: Compact NS630b-1600, Masterpact MTZ
Downstream: Compact NSX, Compact NS630b-1600

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream CB	NS630b-1600				MTZ1	MTZ2
	N	H	L [1]	LB [2]	L1	L1
Icu (kA)	50	70	150	200	150	150

Downstream CB								
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)					
NSX100B	16-100	40	50	50	50	50	50	
NSX100F	16-100	85			150	150	150	
NSX100N	16-100	90			150	150	150	
NSX100H	16-100	100			150	150	150	
NSX100S	16-100	120			150	200	150	
NSX100L	16-100	150				200		
NSX160B	16-160	40	50	50	50	50	50	
NSX160F	16-160	85			150	150	150	
NSX160N	16-160	90			150	150	150	
NSX160H	16-160	100			150	150	150	
NSX160S	16-160	120			150	200	150	
NSX160L	16-160	150				200		
NSX250B	16-250	40	50	50	50	50	50	
NSX250F	16-250	85			150	150	150	
NSX250N	16-250	90			150	150	150	
NSX250H	16-250	100			150	150	150	
NSX250S	16-250	120			150	200	150	
NSX250L	16-250	150				200		
NSX400F	250-400	40	50	50	150	150	150	
NSX400N	250-400	85			150	150	150	100
NSX400H	250-400	100			150	150	150	
NSX400S	250-400	120			150	200	150	
NSX400L	250-400	150				200		
NSX630F	250-630	40	50	50	150	150	150	
NSX630N	250-630	85			150	150	150	100
NSX630H	250-630	100			150	150	150	
NSX630S	250-630	120			150	200	150	
NSX630L	250-630	150				200		
NS630b-1600N	630-1600	50		70				70

[1] Compact NS630bL, NS800L, NS1000L
[2] Compact NS630bLB, NS800LB

Selectivity enhanced by cascading

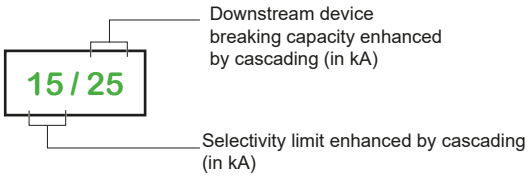
With traditional circuit breakers, cascading between two devices generally results in the loss of selectivity.
With Compact circuit breakers, the selectivity characteristics in the tables remain applicable and are in some cases even enhanced. Protection selectivity is ensured for short-circuit currents greater than the rated breaking capacity of the circuit breaker and even, in some cases, for its enhanced breaking capacity. In the later case, **protection selectivity is total**, i.e. only the downstream device trips for any and all possible faults at its point in the installation.

Example
Consider a combination between:
- a Compact NSX250H with trip unit TM250D
- a Compact NSX100F with trip unit TM25D.

The selectivity tables indicate total selectivity. Protection selectivity is therefore ensured up to the breaking capacity of the NSX100F, i.e. **36 kA**.
The cascading tables indicate an enhanced breaking capacity of **70 kA**.
The enhanced selectivity tables indicate that in a cascading configuration, selectivity is ensured up to **70 kA**, i.e. for any and all possible faults at that point in the installation.

Enhanced selectivity tables - 380-415 V

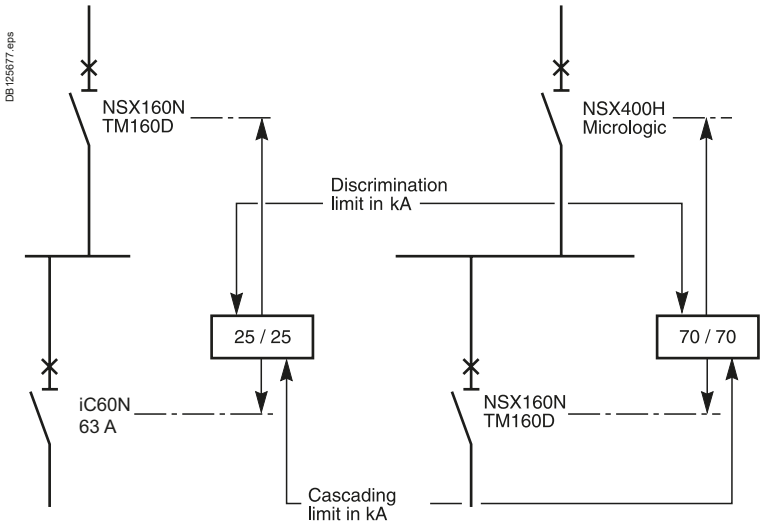
For each combination of two circuit breakers, the tables indicate the:



In a table, a box containing two equal values indicates that selectivity is provided up to the reinforced breaking capacity of the downstream device.
These tables apply only to cases with combined selectivity and cascading between two devices. For all other cases, refer to the normal cascading and selectivity tables.

Technical principle

Enhanced selectivity is the result of the exclusive Compact NSX Roto-active breaking technique which operates as follows:
- due to the short-circuit current (electrodynamic forces), the contacts in both devices simultaneously separate. The result is major limitation of the short-circuit current
- the dissipated energy provokes the reflex tripping of the downstream device, but is insufficient to trip the upstream device.



Note: respect the basic rules of selectivity, in terms of overload, short-circuit, see page 6 and 12.

Selectivity enhanced by cascading

Upstream: Compact NSXm, NSX100, Micrologic
Downstream: iC60

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream		NSXm															
		B					F					N/H					
	Icu (kA)	25					36					50/70					
	Trip unit	Micrologic 4.1															
Downstream																	
Rating (A)		100			160		100			160		100			160		
Setting (kA)		63	80	100	125	160	63	80	100	125	160	63	80	100	125	160	
	Rating (A)	Icu (kA)															
iC60N	≤ 16	10	20/20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/30	25/30	25/30	25/30	25/30
	20	10	20/20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/30	25/30	25/30	25/30	25/30
	25	10		20/20	20/20	20/20	20/20		25/25	25/25	25/25	25/25		25/30	25/30	25/30	25/30
	32	10		20/20	20/20	20/20	20/20		25/25	25/25	25/25	25/25		25/30	25/30	25/30	25/30
	40	10		16/20	16/20	16/20	16/20		16/25	16/25	16/25	16/25		16/30	16/30	16/30	16/30
	50	10			8/20	8/20	8/20			8/25	8/25	8/25			8/30	8/30	8/30
	63	10				8/20	8/20				8/25	8/25				8/30	8/30
iC60H	≤ 16	15	25/25	25/25	25/25	25/25	25/25	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36
	20	15	25/25	25/25	25/25	25/25	25/25	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36
	25	15		25/25	25/25	25/25	25/25		25/36	25/36	25/36	25/36		25/36	25/36	25/36	25/36
	32	15		25/25	25/25	25/25	25/25		25/36	25/36	25/36	25/36		25/36	25/36	25/36	25/36
	40	15		16/25	16/25	16/25	16/25		16/36	16/36	16/36	16/36		16/36	16/36	16/36	16/36
	50	15			8/25	8/25	8/25			8/36	8/36	8/36			8/36	8/36	8/36
	63	15				8/25	8/25				8/36	8/36				8/36	8/36
iC60L	≤ 16	25	25/25	25/25	25/25	25/25	25/25	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36
	20	25	25/25	25/25	25/25	25/25	25/25	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36
	25	25		25/25	25/25	25/25	25/25		25/36	25/36	25/36	25/36		25/36	25/36	25/36	25/36
	32	20		25/25	25/25	25/25	25/25		25/36	25/36	25/36	25/36		25/36	25/36	25/36	25/36
	40	20		16/25	16/25	16/25	16/25		16/36	16/36	16/36	16/36		16/36	16/36	16/36	16/36
	50	15			8/25	8/25	8/25			8/36	8/36	8/36			8/36	8/36	8/36
	63	15				8/25	8/25				8/36	8/36				8/36	8/36

Upstream		NSXm															
		B					F					N/H					
	Icu (kA)	25					36					50/70					
	Trip unit	TM-D															
	Rating (A)	≤ 63	80	100	125	160	≤ 63	80	100	125	160	≤ 63	80	100	125	160	
Downstream																	
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)														
iC60N	≤ 16	10	-/20	20/20	20/20	20/20	20/20	-/25	25/25	25/25	25/25	25/25	-/30	25/30	25/30	25/30	25/30
	20	10	-/20	20/20	20/20	20/20	20/20	-/25	25/25	25/25	25/25	25/25	-/30	25/30	25/30	25/30	25/30
	25	10		8/20	20/20	20/20	20/20		8/25	25/25	25/25	25/25		8/30	25/30	25/30	25/30
	32	10		3/20	20/20	20/20	20/20		3/25	25/25	25/25	25/25		3/30	25/30	25/30	25/30
	40	10		2/20	16/20	16/20	16/20		2/25	16/25	16/25	16/25		2/30	16/30	16/30	16/30
	50	10			6/20	8/20	8/20			6/25	8/25	8/25			6/30	8/30	8/30
	63	10				8/20	8/20				8/25	8/25				8/30	8/30
iC60H	≤ 16	15	-/25	25/25	25/25	25/25	25/25	-/36	25/36	25/36	25/36	25/36	-/36	25/36	25/36	25/36	25/36
	20	15	-/25	25/25	25/25	25/25	25/25	-/36	25/36	25/36	25/36	25/36	-/36	25/36	25/36	25/36	25/36
	25	15		8/25	25/25	25/25	25/25		8/36	25/36	25/36	25/36		8/36	25/36	25/36	25/36
	32	15		3/25	25/25	25/25	25/25		3/36	25/36	25/36	25/36		3/36	25/36	25/36	25/36
	40	15		2/25	16/25	16/25	16/25		2/36	16/36	16/36	16/36		2/36	16/36	16/36	16/36
	50	15			6/25	8/25	8/25			6/36	8/36	8/36			6/36	8/36	8/36
	63	15				8/25	8/25				8/36	8/36				8/36	8/36
iC60L	≤ 16	25	-/25	25/25	25/25	25/25	25/25	-/36	25/36	25/36	25/36	25/36	-/36	25/36	25/36	25/36	25/36
	20	25	-/25	25/25	25/25	25/25	25/25	-/36	25/36	25/36	25/36	25/36	-/36	25/36	25/36	25/36	25/36
	25	25		8/25	25/25	25/25	25/25		8/36	25/36	25/36	25/36		8/36	25/36	25/36	25/36
	32	20		3/25	25/25	25/25	25/25		3/36	25/36	25/36	25/36		3/36	25/36	25/36	25/36
	40	20		2/25	16/25	16/25	16/25		2/36	16/36	16/36	16/36		2/36	16/36	16/36	16/36
	50	15			6/25	8/25	8/25			6/36	8/36	8/36			6/36	8/36	8/36
	63	15				8/25	8/25				8/36	8/36				8/36	8/36

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".

Selectivity enhanced by cascading

Upstream: Compact NSX100, Micrologic
Downstream: iC60

Ue: 380-415 V
(Ph/N 220-240 V AC)

Upstream		NSX100					
		B	F	N	H	S	L
	Icu (kA)	25	36	50	70	100	150
	Trip unit	Micrologic [1]					

Downstream														
Rating (A)			40	100	40	100	40	100	40	100	40	100	40	100
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)											
iC60N	≤ 20	10	20/20	20/20	25/25	25/25	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30
	25	10	20/20	20/20	25/25	25/25	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30
	32	10		20/20		25/25		30/30		30/30		30/30		30/30
	40	10		20/20		25/25		30/30		30/30		30/30		30/30
	50	10		6/20		6/25		6/30		6/30		6/30		6/30
	63	10		6/20		6/25		6/30		6/30		6/30		6/30
iC60H	≤ 20	15	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	25	15	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	32	15		25/25		36/36		40/40		40/40		40/40		40/40
	40	15		25/25		36/36		40/40		40/40		40/40		40/40
	50	15		6/25		6/36		6/40		6/40		6/40		6/40
	63	15		6/25		6/36		6/40		6/40		6/40		6/40
iC60L	≤ 20	25	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	25	25	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	32	20		25/25		36/36		40/40		40/40		40/40		40/40
	40	20		25/25		36/36		40/40		40/40		40/40		40/40
	50	15		6/25		6/36		6/40		6/40		6/40		6/40
	63	15		6/25		6/36		6/40		6/40		6/40		6/40

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".
[1] Applicable for all "Distribution" Micrologic of Compact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) Micrologic of Compact NSX range but curves shall be checked. Not applicable for "Motor" Micrologic of Compact NSX range ("M" type).

Selectivity enhanced by cascading

Upstream: Compact NSX160, NSX250, Micrologic
Downstream: iC60, C120, NG125, Compact NSXm, NSX100

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream			NSX160											
			B		F		N		H		S		L	
		Icu (kA)	25		36		50		70		100		150	
		Trip unit	Micrologic [1]											
Downstream Rating (A)			100	160	100	160	100	160	100	160	100	160	100	160
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)											
iC60N	⩽ 20	10	20/20	20/20	25/25	25/25	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30
	25	10	20/20	20/20	25/25	25/25	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30
	32	10	20/20	20/20	25/25	25/25	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30
	40	10	20/20	20/20	25/25	25/25	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30
	50	10	6/20	20/20	6/25	25/25	6/30	30/30	6/30	30/30	6/30	30/30	6/30	30/30
	63	10	6/20	20/20	6/25	25/25	6/30	30/30	6/30	30/30	6/30	30/30	6/30	30/30
iC60H	20	15	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	25	15	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	32	15	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	40	15	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	50	15	6/25	25/25	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36
	63	15	6/25	25/25	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36
iC60L	⩽ 20	25	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	25	25	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	32	20	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	40	20	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	50	15	6/25	25/25	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36
	63	15	6/25	25/25	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36

Upstream			NSX250					
			B	F	N	H	S	L
		Icu (kA)	25	36	50	70	100	150
		Trip unit	Micrologic [1]					
Downstream Rating (A)			250	250	250	250	250	250
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)					
iC60N	⩽ 40	10	20/20	25/25	30/30	30/30	30/30	30/30
	50-63A	10	20/20	25/25	25/25	25/25	25/25	25/25
iC60H	⩽ 40	15	25/25	30/30	30/30	30/30	30/30	30/30
	50-63A	15	25/25	25/25	25/25	25/25	25/25	25/25
iC60L	⩽ 25	25	25/25	30/30	30/30	30/30	30/30	30/30
	32-40	20	25/25	30/30	30/30	30/30	30/30	30/30
	50-63	15	25/25	25/25	25/25	25/25	25/25	25/25
C120N		10	25/25	25/25	25/25	25/25	25/25	25/25
C120H		15	25/25	25/25	25/25	25/25	25/25	25/25
NG125N		25		36/36	36/36	36/36	50/50	70/70
NG125H		36			40/40	50/50	70/70	100/100
NG125L		50				70/70	100/100	150/150
NSXm E		16	25/25	25/25	30/30	30/30	30/30	30/30
NSXm B		25		36/36	36/36	36/36	36/36	36/36
NSXm F		36			50/50	50/50	70/70	70/70
NSXm N		50				70/70	70/70	70/70
NSX100B	⩽ 25	25		36/36	36/36	50/50	50/50	50/50
TM-D	40-100	25		36/36	36/36	36/50	36/50	36/50
NSX100F	⩽ 25	36			50/50	70/70	100/100	150/150
TM-D	40-100	36			36/50	36/70	36/100	36/150
NSX100N	⩽ 25	50				70/70	100/100	150/150
TM-D	40-100	50				36/70	36/100	36/150
NSX100H	⩽ 25	70					100/100	150/150
TM-D	40-100	70					36/100	36/150
NSX100S	⩽ 25	100						150/150
TM-D	40-100	100						36/150
NSX100B Micrologic		25		36/36	36/50	36/50	36/50	36/50
NSX100F Micrologic		36				36/70	36/100	36/150
NSX100N Micrologic		50				36/70	36/100	36/150
NSX100H Micrologic		70					36/100	36/150
NSX100S Micrologic		100						36/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".
[1] Applicable for all "Distribution" Micrologic of Compact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) Micrologic of Compact NSX range but curves shall be checked. Not applicable for "Motor" Micrologic of Compact NSX range ("M" type).

Selectivity enhanced by cascading

Upstream: Compact NSX160, NSX250, TM-D
Downstream: iC60, C120, NG125, Compact NSXm, NSX100

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream		NSX160					
		B	F	N	H	S	L
	Icu (kA)	25	36	50	70	100	150
	Trip unit	TM-D					

Downstream Rating (A)			≤ 100	125-160	≤ 100	125-160	≤ 100	125-160	≤ 100	125-160	≤ 100	125-160	≤ 100	125-160
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)											
iC60N	≤ 20	10	-/20	20/20	-/25	25/25	-/30	30/30	-/30	30/30	-/30	30/30	-/30	30/30
	25	10	-/20	20/20	-/25	25/ 25	-/30	30/30	-/30	30/30	-/30	30/30	-/30	30/30
	32	10	-/20	20/20	-/25	25/25	-/30	30/30	-/30	30/30	-/30	30/30	-/30	30/30
	40	10	-/20	20/20	-/25	25/25	-/30	30/30	-/30	30/30	-/30	30/30	-/30	30/30
	50	10	-/20	20/20	-/25	25/25	-/30	30/30	-/30	30/30	-/30	30/30	-/30	30/30
	63	10	-/20	20/20	-/25	25/25	-/30	30/30	-/30	30/30	-/30	30/30	-/30	30/30
iC60H	≤ 20	15	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	25	15	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	32	15	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	40	15	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	50	15	-/25	25/25	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36
	63	15	-/25	25/25	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36
iC60L	≤ 20	25	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	25	25	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	32	20	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	40	20	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	50	15	-/25	25/25	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36
	63	15	-/25	25/25	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36

Upstream		NSX250					
		B	F	N	H	S	L
	Icu (kA)	25	36	50	70	100	130
	Trip unit	TM-D					

Downstream Rating (A)			200-250	200-250	200-250	200-250	200-250	200-250
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)					
iC60N	≤ 40	10	20/20	25/25	30/30	30/30	30/30	30/30
	50-63	10	20/20	25/25	25/25	25/25	25/25	25/25
iC60H	≤ 40	15	25/25	30/30	30/30	30/30	30/30	30/30
	50-63	15	25/25	25/25	25/25	25/25	25/25	25/25
iC60L	≤ 25	25	25/25	30/30	30/30	30/30	30/30	30/30
	32-40	20	25/25	30/30	30/30	30/30	30/30	30/30
	50-63	15	25/25	25/25	25/25	25/25	25/25	25/25
C120N		10	25/25	25/25	25/25	25/25	25/25	25/25
C120H		15	25/25	25/25	25/25	25/25	25/25	25/25
NG125N		25		36/36	36/36	36/36	50/50	70/70
NG125H		36			40/40	50/50	70/70	100/100
NG125L		50				70/70	100/100	150/150
NSXm E	≤ 125	16	25/25	25/25	30/30	30/30	30/30	30/30
NSXm B	≤ 125	25		36/36	36/36	36/36	36/36	36/36
NSXm F	≤ 125	36			50/50	70/70	70/70	70/70
NSXm N	≤ 125	50				70/70	70/70	70/70
NSX100B	≤ 25	25		36/36	36/36	50/50	50/50	50/50
TM-D	40 - 100	25		36/36	36/36	36/50	36/50	36/50
NSX100F	≤ 25	36			50/50	70/70	100/100	150/150
TM-D	40 - 100	36			36/50	36/70	36/100	36/150
NSX100N	≤ 25	50				70/70	100/100	150/150
TM-D	40 - 100	50				36/70	36/100	36/150
NSX100H	≤ 25	70					100/100	150/150
TM-D	40 - 100	70					36/100	36/150
NSX100S	≤ 25	100						150/150
TM-D	40 - 100	70						36/150
NSX100B Micrologic		25		2/36	2/36	2/50	2/50	2/50
NSX100F Micrologic		36			2/50	2/70	2/100	2/150
NSX100N Micrologic		50				2/70	2/100	2/150
NSX100H Micrologic		70					2/100	2/150
NSX100S Micrologic		100						2/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".

Selectivity enhanced by cascading

Upstream: Compact NSX400, NSX630, Micrologic
Downstream: Compact NSXm, NSX100, NSX160, NSX250

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream		NSX400					NSX630				
		F	N	H	S	L	F	N	H	S	L
	Icu (kA)	36	50	70	100	150	36	50	70	100	150
	Trip unit	Micrologic [1]									

Downstream												
Rating (A)			400	400	400	400	400	630	630	630	630	630
	Trip unit	Icu (kA)	Reinforced breaking capacity (kA)									
NSXm E	TM-D	16	25/25	30/30	30/30	30/30	30/30	25/25	30/30	30/30	30/30	30/30
NSXm B	TM-D	25	36/36	36/36	50/50	50/50	50/50	36/36	36/36	50/50	50/50	50/50
NSXm F	TM-D	36		50/50	70/70	70/70	70/70		50/50	70/70	70/70	70/70
NSXm N	TM-D	50			70/70	70/70	70/70			70/70	70/70	70/70
NSXm E	Micrologic	16	25/25	30/30	30/30	30/30	30/30	25/25	30/30	30/30	30/30	30/30
NSXm B	Micrologic	25	36/36	36/36	50/50	50/50	50/50	36/36	36/36	50/50	50/50	50/50
NSXm F	Micrologic	36		50/50	70/70	70/70	70/70		50/50	70/70	70/70	70/70
NSXm N	Micrologic	50			70/70	70/70	70/70			70/70	70/70	70/70
NSX100B	TM-D	25	36/36	36/36	50/50	50/50	50/50	36/36	36/36	50/50	50/50	50/50
NSX100F	TM-D	36		50/50	70/70	100/100	150/150		50/50	70/70	100/100	150/150
NSX100N	TM-D	50			70/70	100/100	150/150			70/70	100/100	150/150
NSX100H	TM-D	70				100/100	150/150				100/100	150/150
NSX100S	TM-D	100					150/150					150/150
NSX160B	TM-D	25	36/36	36/36	50/50	50/50	50/50	36/36	36/36	50/50	50/50	50/50
NSX160F	TM-D	36		50/50	70/70	100/100	150/150		50/50	70/70	100/100	150/150
NSX160N	TM-D	50			70/70	100/100	150/150			70/70	100/100	150/150
NSX160H	TM-D	70				100/100	150/150				100/100	150/150
NSX160S	TM-D	100					150/150					150/150
NSX250B	TM-D	25						36/36	36/36	50/50	50/50	50/50
NSX250F	TM-D	36							50/50	70/70	100/100	150/150
NSX250N	TM-D	50								70/70	100/100	150/150
NSX250H	TM-D	70									100/100	150/150
NSX250S	TM-D	100										150/150
NSX100B	Micrologic	25	36/36	36/36	50/50	50/50	50/50	36/36	36/36	50/50	50/50	50/50
NSX100F	Micrologic	36		50/50	70/70	100/100	150/150		50/50	70/70	100/100	150/150
NSX100N	Micrologic	50			70/70	100/100	150/150			70/70	100/100	150/150
NSX100H	Micrologic	70				100/100	150/150				100/100	150/150
NSX100S	Micrologic	100					150/150					150/150
NSX160B	Micrologic	25	36/36	36/36	50/50	50/50	50/50	36/36	36/36	50/50	50/50	50/50
NSX160F	Micrologic	36		50/50	70/70	100/100	150/150		50/50	70/70	100/100	150/150
NSX160N	Micrologic	50			70/70	100/100	150/150			70/70	100/100	150/150
NSX160H	Micrologic	70				100/100	150/150				100/100	150/150
NSX160S	Micrologic	100					150/150					150/150
NSX250B	Micrologic	25						36/36	36/36	50/50	50/50	50/50
NSX250F	Micrologic	36							50/50	70/70	100/100	150/150
NSX250N	Micrologic	50								70/70	100/100	150/150
NSX250H	Micrologic	70									100/100	150/150
NSX250S	Micrologic	100										150/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".
[1] Applicable for all "Distribution" Micrologic of Compact NSX range: 2.3 4.3, 5.3, 6.3, 7.3. For 4.3 and 7.3 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) Micrologic of Compact NSX range but curves shall be checked Not applicable for "Motor" Micrologic of Compact NSX range ("M" type).

Selectivity enhanced by cascading

Upstream: Compact NS800, NS1000, NS1250, NS1600, Micrologic
Downstream: Compact NSX100, NSX160, NSX250, NSX400, NSX630

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream		NS800				NS1000			NS1250		NS1600	
		N	H	L	LB	N	H	L	N	H	N	H
	Icu (kA)	50	70	150	200	50	70	150	50	70	50	70
	Trip unit	Micrologic										

Downstream													
Rating (A)			800	800	800	800	1000	1000	1000	1250	1250	1600	1600
	Trip unit	Icu (kA)	Reinforced breaking capacity (kA)										
NSX100B	TM-D / Micrologic	25	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
NSX100F	TM-D / Micrologic	36	50/50	70/70	150/150	150/150	50/50	70/70	150/150	50/50	70/70	50/50	70/70
NSX100N	TM-D / Micrologic	50		70/70	150/150	150/150		70/70	150/150		70/70		70/70
NSX100H	TM-D / Micrologic	70			150/150	150/150			150/150				
NSX100S	TM-D / Micrologic	100			150/150	200/200			150/150				
NSX100L	TM-D / Micrologic	150				200/200							
NSX160B	TM-D / Micrologic	25	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
NSX160F	TM-D / Micrologic	36	50/50	70/70	150/150	150/150	50/50	70/70	150/150	50/50	70/70	50/50	70/70
NSX160N	TM-D / Micrologic	50		70/70	150/150	150/150		70/70	150/150		70/70		70/70
NSX160H	TM-D / Micrologic	70			150/150	150/150			150/150				
NSX160S	TM-D / Micrologic	100			150/150	200/200			150/150				
NSX160L	TM-D / Micrologic	150				200/200							
NSX250B	TM-D / Micrologic	25	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
NSX250F	TM-D / Micrologic	36	50/50	70/70	150/150	150/150	50/50	70/70	150/150	50/50	70/70	50/50	70/70
NSX250N	TM-D / Micrologic	50		70/70	150/150	150/150		70/70	150/150		70/70		70/70
NSX250H	TM-D / Micrologic	70			150/150	150/150			150/150				
NSX250S	TM-D / Micrologic	100			150/150	200/200			150/150				
NSX250L	TM-D / Micrologic	150				200/200							
NSX400F	Micrologic	36	50/50	70/70	10/150	10/150	50/50	70/70	15/150	50/50	70/70	50/50	70/70
NSX400N	Micrologic	50		70/70	10/150	10/150		70/70	15/150		70/70		70/70
NSX400H	Micrologic	70			10/150	10/150			15/150				
NSX400S	Micrologic	100			10/150	10/200			15/150				
NSX400L	Micrologic	150				10/200							
NSX630F	Micrologic	36					50/50	65/70	10/150	50/50	65/70	50/50	65/70
NSX630N	Micrologic	50						65/70	10/150		65/70		65/70
NSX630H	Micrologic	70							10/150				
NSX630S	Micrologic	100							10/150				

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".

Selectivity enhanced by cascading

Upstream: Compact NSXm, Micrologic, TM-D
Downstream: iC60

Ue: 440 V AC

Upstream		NSXm		
		B	F	N/H
	Icu (kA)	20	35	50/65
	Trip unit	Micrologic 4.1		

Downstream																	
Rating (A)			100			160		100			160		100			160	
Setting (kA)			63	80	100	125	160	63	80	100	125	160	63	80	100	125	160
	Rating (A)	Icu (kA)															
iC60N	≤ 16	6	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20
	20	6	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20
	25	6		15/15	15/15	15/15	15/15		15/15	15/15	15/15	15/15		20/20	20/20	20/20	20/20
	32	6		15/15	15/15	15/15	15/15		15/15	15/15	15/15	15/15		20/20	20/20	20/20	20/20
	40	6		15/15	15/15	15/15	15/15		15/15	15/15	15/15	15/15		16/20	16/20	16/20	16/20
	50	6			8/15	8/15	8/15			8/15	8/15	8/15			8/20	8/20	8/20
	63	6				8/15	8/15				8/15	8/15				8/20	8/20
iC60H	≤ 16	10	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25
	20	10	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25
	25	10		20/20	20/20	20/20	20/20		20/20	20/20	20/20	20/20		25/25	25/25	25/25	25/25
	32	10		20/20	20/20	20/20	20/20		20/20	20/20	20/20	20/20		25/25	25/25	25/25	25/25
	40	10		16/20	16/20	16/20	16/20		16/20	16/20	16/20	16/20		16/25	16/25	16/25	16/25
	50	10			8/20	8/20	8/20			8/20	8/20	8/20			8/25	8/25	8/25
	63	10				8/20	8/20				8/20	8/20				8/25	8/25
iC60L	≤ 16	20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25
	20	20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25
	25	20		20/20	20/20	20/20	20/20		20/20	20/20	20/20	20/20		25/25	25/25	25/25	25/25
	32	15		20/20	20/20	20/20	20/20		20/20	20/20	20/20	20/20		25/25	25/25	25/25	25/25
	40	15		16/20	16/20	16/20	16/20		16/20	16/20	16/20	16/20		16/25	16/25	16/25	16/25
	50	10			8/20	8/20	8/20			8/20	8/20	8/20			8/25	8/25	8/25
	63	10				8/20	8/20				8/20	8/20				8/25	8/25

Upstream		NSXm		
		B	F	N / H
	Icu (kA)	20	35	50 / 65
	Trip unit	TM-D		

Downstream																	
Rating (A)			≤ 63	80	100	125	160	≤ 63	80	100	125	160	≤ 63	80	100	125	160
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)														
iC60N	≤ 16	6	-/15	15/15	15/15	15/15	15/15	-/15	15/15	15/15	15/15	15/15	-/20	20/20	20/20	20/20	20/20
	20	6	-/15	15/15	15/15	15/15	15/15	-/15	15/15	15/15	15/15	15/15	-/20	20/20	20/20	20/20	20/20
	25	6		8/15	15/15	15/15	15/15		8/15	15/15	15/15	15/15		8/20	20/20	20/20	20/20
	32	6		3/15	15/15	15/15	15/15		3/15	15/15	15/15	15/15		3/20	20/20	20/20	20/20
	40	6		2/15	15/15	15/15	15/15		2/15	15/15	15/15	15/15		2/20	16/20	16/20	16/20
	50	6			6/15	8/15	8/15			6/15	8/15	8/15			6/20	8/20	8/20
	63	6				8/15	8/15				8/15	8/15				8/20	8/20
iC60H	≤ 16	10	-/20	20/20	20/20	20/20	20/20	-/20	20/20	20/20	20/20	20/20	-/25	25/25	25/25	25/25	25/25
	20	10	-/20	20/20	20/20	20/20	20/20	-/20	20/20	20/20	20/20	20/20	-/25	25/25	25/25	25/25	25/25
	25	10		8/20	20/20	20/20	20/20		8/20	20/20	20/20	20/20		8/25	25/25	25/25	25/25
	32	10		3/20	20/20	20/20	20/20		3/20	20/20	20/20	20/20		3/25	25/25	25/25	25/25
	40	10		2/20	16/20	16/20	16/20		2/20	16/20	16/20	16/20		2/25	16/25	16/25	16/25
	50	10			6/20	8/20	8/20			6/20	8/20	8/20			6/25	8/25	8/25
	63	10				8/20	8/20				8/20	8/20				8/25	8/25
iC60L	≤ 16	20	-/20	20/20	20/20	20/20	20/20	-/20	20/20	20/20	20/20	20/20	-/25	25/25	25/25	25/25	25/25
	20	20	-/20	20/20	20/20	20/20	20/20	-/20	20/20	20/20	20/20	20/20	-/25	25/25	25/25	25/25	25/25
	25	20		8/20	20/20	20/20	20/20		8/20	20/20	20/20	20/20		8/25	25/25	25/25	25/25
	32	15		3/20	20/20	20/20	20/20		3/20	20/20	20/20	20/20		3/25	25/25	25/25	25/25
	40	15		2/20	16/20	16/20	16/20		2/20	16/20	16/20	16/20		2/25	16/25	16/25	16/25
	50	10			6/20	8/20	8/20			6/20	8/20	8/20			6/25	8/25	8/25
	63	10				8/20	8/20				8/20	8/20				8/25	8/25

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".

Selectivity enhanced by cascading

Upstream: Compact NSX100, Micrologic
Downstream: iC60

Ue: 440 V AC

Upstream		NSX100											
		B		F		N		H		S		L	
	Icu (kA)	20		35		50		65		90		130	
	Trip unit	Micrologic [1]											
Downstream													
Rating (A)		40	100	40	100	40	100	40	100	40	100	40	100
	Rating (A)	**Icu (kA)**	**Reinforced breaking capacity (kA)**											
iC60N	**≤ 20**	**6**	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
	25	**6**	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
	32	**6**		15/15		15/15		20/20		20/20		20/20		20/20
	40	**6**		15/15		15/15		20/20		20/20		20/20		20/20
	50	**6**		6/15		6/15		6/20		6/20		6/20		6/20
	63	**6**		6/15		6/15		6/20		6/20		6/20		6/20
iC60H	**≤ 20**	**10**	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	25	**10**	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	32	**10**		20/20		20/20		25/25		25/25		25/25		25/25
	40	**10**		20/20		20/20		25/25		25/25		25/25		25/25
	50	**10**		6/20		6/20		6/25		6/25		6/25		6/25
	63	**10**		6/20		6/20		6/25		6/25		6/25		6/25
iC60L	**≤ 20**	**20**	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	25	**20**	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	32	**15**		20/20		20/20		25/25		25/25		25/25		25/25
	40	**15**		20/20		20/20		25/25		25/25		25/25		25/25
	50	**10**		6/20		6/20		6/25		6/25		6/25		6/25
	63	**10**		6/20		6/20		6/25		6/25		6/25		6/25

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".
[1] Applicable for all "Distribution" Micrologic of Compact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) Micrologic of Compact NSX range but curves shall be checked. Not applicable for "Motor" Micrologic of Compact NSX range ("M" type).

Selectivity enhanced by cascading

Upstream: Compact NSX160, NSX250, Micrologic
Downstream: iC60, NG125, Compact NSXm

Ue: 440 V AC

Upstream		NSX160											
		B		F		N		H		S		L	
	Icu (kA)	20		35		50		65		90		130	
	Trip unit	Micrologic [1]											
Downstream Rating (A)		100	160	100	160	100	160	100	160	100	160	100	160
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)											
iC60N	≤ 20	6	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
	25	6	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
	32	6	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
	40	6	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
	50	6	6/15	15/15	6/15	15/15	6/20	20/20	6/20	20/20	6/20	20/20	6/20	20/20
	63	6	6/15	15/15	6/15	15/15	6/20	20/20	6/20	20/20	6/20	20/20	6/20	20/20
iC60H	20	10	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	25	10	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	32	10	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	40	10	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	50	10	6/20	20/20	6/20	20/20	6/25	25/25	6/25	25/25	6/25	25/25	6/25	25/25
	63	10	6/20	20/20	6/20	20/20	6/25	25/25	6/25	25/25	6/25	25/25	6/25	25/25
iC60L	≤ 20	20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	25	20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	32	15	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	40	15	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	50	10	6/20	20/20	6/20	20/20	6/25	25/25	6/25	25/25	6/25	25/25	6/25	25/25
	63	10	6/20	20/20	6/20	20/20	6/25	25/25	6/25	25/25	6/25	25/25	6/25	25/25
NG125N	≤ 20	20				35/35		35/35		35/35		50/50		65/65
NG125H	≤ 20	30						40/40		50/50		65/65		90/90
NG125L	≤ 20	40						50/50		65/65		90/90		130/130

Upstream		NSX250						
		B	F	N	H	S	L	
	Icu (kA)	20	35	50	65	90	130	
	Trip unit	Micrologic [1]						
Downstream Rating (A)		250	250	250	250	250	250	
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)					
NG125N		20		35/35	35/35	50/50	65/65	
NG125H		30			40/40	50/50	65/65	90/90
NG125L		40				65/65	90/90	130/130
NSXm E		15	20/20	20/20	30/30	30/30	30/30	30/30
NSXm B		20		35/35	35/35	50/50	50/50	50/50
NSXm F		35			50/50	50/50	65/65	65/65
NSXm N		50				65/65	65/65	65/65
NSX100B TM-D	≤ 25			35/35	35/35	50/50	50/50	50/50
	40 - 100			35/35	35/35	36/50	36/50	36/50
NSX100F TM-D	≤ 25				50/50	65/65	90/90	130/130
	40 - 100				36/50	36/65	36/90	36/130
NSX100N TM-D	≤ 25					65/65	90/90	130/130
	40 - 100					36/65	36/90	36/130
NSX100H TM-D	≤ 25						90/90	130/130
	40 - 100						36/90	36/130
NSX100S TM-D	≤ 25							130/130
	40 - 100							36/130
NSX100B Micrologic		20		35/35	35/35	35/50	35/50	35/50
NSX100F Micrologic		35			35/50	35/50	35/90	35/130
NSX100N Micrologic		50				35/65	35/90	35/130
NSX100H Micrologic		65					35/90	35/130
NSX100S Micrologic		90						35/130

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".
[1] Applicable for all "Distribution" Micrologic of Compact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) Micrologic of Compact NSX range but curves shall be checked. Not applicable for "Motor" Micrologic of Compact NSX range ("M" type).

Selectivity enhanced by cascading

Upstream: Compact NSX160, NSX250, TM-D
Downstream: iC60, NG125, Compact NSXm, NSX100

Ue: 440 V AC

Upstream		NSX160					
		B	F	N	H	S	L
	Icu (kA)	20	35	50	65	90	130
	Trip unit	TM-D					

Downstream Rating (A)			≤ 100	125-160	≤ 100	125-160	≤ 100	125-160	≤ 100	125-160	≤ 100	125-160	≤ 100	125-160
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)											
iC60N	20	6	-/15	15/15	-/15	15/15	-/20	20/20	-/20	20/20	-/20	20/20	-/20	20/20
	25	6	-/15	15/15	-/15	15/15	-/20	20/20	-/20	20/20	-/20	20/20	-/20	20/20
	32	6	-/15	15/15	-/15	15/15	-/20	20/20	-/20	20/20	-/20	20/20	-/20	20/20
	40	6	-/15	15/15	-/15	15/15	-/20	20/20	-/20	20/20	-/20	20/20	-/20	20/20
	50	6	-/15	15/15	-/15	15/15	-/20	20/20	-/20	20/20	-/20	20/20	-/20	20/20
	63	6	-/15	15/15	-/15	15/15	-/20	20/20	-/20	20/20	-/20	20/20	-/20	20/20
iC60H	≤ 20	10	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	25	10	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	32	10	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	40	10	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	50	10	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	63	10	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
iC60L	≤ 20	20	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	25	20	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	32	15	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	40	15	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	50	10	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	63	10	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
NG125N	≤ 20	20				35/35		35/35		35/35		50/50		65/65
NG125H	≤ 20	30				35/35		40/40		50/50		65/65		90/90
NG125L	≤ 20	40						50/50		65/65		90/90		130/130

Upstream		NSX250					
		B	F	N	H	S	L
	Icu (kA)	20	35	50	65	90	130
	Trip unit	TM-D					

Downstream Rating (A)			200-250	200-250	200-250	200-250	200-250	200-250
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)					
NG125N		20		35/35	35/35	35/35	50/50	65/65
NG125H		30			40/40	50/50	65/65	90/90
NG125L		40				65/65	90/90	130/130
NSXm E	≤ 125	10	20/20	20/20	30/30	30/30	30/30	30/30
NSXm B	≤ 125	20		35/35	35/35	50/50	50/50	50/50
NSXm F	≤ 125	35			50/50	50/50	65/65	65/65
NSXm N	≤ 125	50				65/65	65/65	65/65
NSX100B	≤ 25	25		35/35	35/35	50/50	50/50	50/50
TM-D	40 - 100			35/35	35/35	36/50	36/50	36/50
NSX100F	≤ 25	36			50/50	65/65	90/90	130/130
TM-D	40 - 100				36/50	36/65	36/90	36/130
NSX100N	≤ 25	50				65/65	90/90	130/130
TM-D	40 - 100					36/65	36/90	36/130
NSX100H	≤ 25	70					90/90	130/130
TM-D	40 - 100						36/90	36/130
NSX100S	≤ 25	100						130/130
TM-D	40 - 100							36/130
NSX100B Micrologic		25		2/35	2/35	2/50	2/50	2/50
NSX100F Micrologic		36			2/50	2/50	2/90	2/130
NSX100N Micrologic		50				2/65	2/90	2/130
NSX100H Micrologic		70					2/90	2/130
NSX100S Micrologic		100						2/130

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".

Selectivity enhanced by cascading

Upstream: Compact NSX400, NSX630, Micrologic
Downstream: Compact NSXm, NSX100, NSX160, NSX250

Ue: 440 V AC

Upstream		NSX400					NSX630				
		F	N	H	S	L	F	N	H	S	L
	Icu (kA)	30	42	65	90	130	30	42	65	90	130
	Trip unit	Micrologic [1]									

Downstream												
Rating (A)			400	400	400	400	400	630	630	630	630	630
	Trip unit	Icu (kA)	Reinforced breaking capacity (kA)									
NSXm E	TM-D	10	20/20	30/30	30/30	30/30	30/30	20/20	30/30	30/30	30/30	30/30
NSXm B	TM-D	20	30/30	30/30	50/50	50/50	50/50	30/30	30/30	50/50	50/50	50/50
NSXm F	TM-D	35		42/42	65/65	65/65	65/65		42/42	65/65	65/65	65/65
NSXm N	TM-D	50			65/65	65/65	65/65			65/65	65/65	65/65
NSXm E	Micrologic	10	20/20	30/30	30/30	30/30	30/30	20/20	30/30	30/30	30/30	30/30
NSXm B	Micrologic	20	30/30	30/30	50/50	50/50	50/50	30/30	30/30	50/50	50/50	50/50
NSXm F	Micrologic	35		42/42	65/65	65/65	65/65		42/42	65/65	65/65	65/65
NSXm N	Micrologic	50			65/65	65/65	65/65			65/65	65/65	65/65
NSX100B	TM-D	20	30/30	30/30	50/50	50/50	50/50	30/30	30/30	50/50	50/50	50/50
NSX100F	TM-D	35		42/42	65/65	90/90	130/130		42/42	65/65	90/90	130/130
NSX100N	TM-D	50			65/65	90/90	130/130			65/65	90/90	130/130
NSX100H	TM-D	65				90/90	130/130				90/90	130/130
NSX100S	TM-D	90					130/130					130/130
NSX160B	TM-D	20	30/30	30/30	50/50	50/50	50/50	30/30	30/30	50/50	50/50	50/50
NSX160F	TM-D	35		42/42	65/65	90/90	130/130		42/42	65/65	90/90	130/130
NSX160N	TM-D	50			65/65	90/90	130/130			65/65	90/90	130/130
NSX160H	TM-D	65				90/90	130/130				90/90	130/130
NSX160S	TM-D	90					130/130					130/130
NSX250B	TM-D	20						30/30	30/30	50/50	50/50	50/50
NSX250F	TM-D	35							42/42	65/65	90/90	130/130
NSX250N	TM-D	50								65/65	90/90	130/130
NSX250H	TM-D	65									90/90	130/130
NSX250S	TM-D	90										130/130
NSX100B	Micrologic	20	30/30	30/30	50/50	50/50	50/50	30/30	30/30	50/50	50/50	50/50
NSX100F	Micrologic	35		42/42	65/65	90/90	130/130		42/42	65/65	90/90	130/130
NSX100N	Micrologic	50			65/65	90/90	130/130			65/65	90/90	130/130
NSX100H	Micrologic	65				90/90	130/130				90/90	130/130
NSX100S	Micrologic	90					130/130					130/130
NSX160B	Micrologic	20	30/30	30/30	50/50	50/50	50/50	30/30	30/30	50/50	50/50	50/50
NSX160F	Micrologic	35		42/42	65/65	90/90	130/130		42/42	65/65	90/90	130/130
NSX160N	Micrologic	50			65/65	90/90	130/130			65/65	90/90	130/130
NSX160H	Micrologic	65				90/90	130/130				90/90	130/130
NSX160S	Micrologic	90					130/130					130/130
NSX250B	Micrologic	20						30/30	30/30	50/50	50/50	50/50
NSX250F	Micrologic	35							42/42	65/65	90/90	130/130
NSX250N	Micrologic	50								65/65	90/90	130/130
NSX250H	Micrologic	65									90/90	130/130
NSX250S	Micrologic	90										130/130

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".
[1] Applicable for all "Distribution" Micrologic of Compact NSX range: 2.3 4.3, 5.3, 6.3, 7.3. For 4.3 and 7.3 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) Micrologic of Compact NSX range but curves shall be checked Not applicable for "Motor" Micrologic of Compact NSX range ("M" type).

Selectivity enhanced by cascading

Upstream: Compact NS800, NS100, NS1250, NS1600, Micrologic
Downstream: Compact NSX100, NSX160, NSX250, NSX400, NSX630

Ue: 440 V AC

Upstream		NS800				NS1000			NS1250		NS1600	
		N	H	L	LB	N	H	L	N	H	N	H
	Icu (kA)	50	65	130	200	50	65	130	50	65	50	65
	Trip unit	Micrologic										

Downstream													
Rating (A)			800	800	800	800	1000	1000	1000	1250	1250	1600	1600
	Trip unit	Icu (kA)	Reinforced breaking capacity (kA)										
NSX100B	TM-D / Micrologic	20	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
NSX100F	TM-D / Micrologic	35	50/50	65/65	130/130	130/130	50/50	65/65	130/130	50/50	65/65	50/50	65/65
NSX100N	TM-D / Micrologic	50		65/65	130/130	130/130		65/65	130/130		65/65		65/65
NSX100H	TM-D / Micrologic	65			130/130	130/130			130/130				
NSX100S	TM-D / Micrologic	90			130/130	200/200			130/130				
NSX100L	TM-D / Micrologic	130				200/200							
NSX160B	TM-D / Micrologic	20	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
NSX160F	TM-D / Micrologic	35	50/50	65/65	130/130	130/130	50/50	65/65	130/130	50/50	65/65	50/50	65/65
NSX160N	TM-D / Micrologic	50		65/65	130/130	130/130		65/65	130/130		65/65		65/65
NSX160H	TM-D / Micrologic	65			130/130	130/130			130/130				
NSX160S	TM-D / Micrologic	90			130/130	200/200			130/130				
NSX160L	TM-D / Micrologic	130				200/200							
NSX250B	TM-D / Micrologic	20	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
NSX250F	TM-D / Micrologic	35	50/50	65/65	130/130	130/130	50/50	65/65	130/130	50/50	65/65	50/50	65/65
NSX250N	TM-D / Micrologic	50		65/65	130/130	130/130		65/65	130/130		65/65		65/65
NSX250H	TM-D / Micrologic	65			130/130	130/130			130/130				
NSX250S	TM-D / Micrologic	90			130/130	200/200			130/130				
NSX250L	TM-D / Micrologic	130				200/200							
NSX400F	Micrologic	30	50/50	65/65	10/130	10/130	50/50	65/65	15/130	50/50	65/65	50/50	65/65
NSX400N	Micrologic	42		65/65	10/130	10/130		65/65	15/130		65/65		65/65
NSX400H	Micrologic	65			10/130	10/130			15/130				
NSX400S	Micrologic	90			10/130	10/200			15/130				
NSX400L	Micrologic	130				10/200							
NSX630F	Micrologic	30					50/50	65/65	10/130	50/50	65/65	50/50	65/65
NSX630N	Micrologic	42						65/65	10/130		65/65		65/65
NSX630H	Micrologic	65							10/130				
NSX630S	Micrologic	90							10/130				

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".

Selectivity enhanced by cascading

Upstream: Compact NSX160, NSX250, TM-D
Downstream: iC60, C120, NG125

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream		NSX160					
		B	F	N	H	S	L
	Icu (kA)	40	85	90	100	120	150
	Trip unit	TM-D					

Downstream													
Rating (A)			80-100	125-160	80-100	125-160	80-100	125-160	80-100	125-160	80-100	125-160	80-100	125-160
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)											
iC60N		20		30/30		40/40		60/60		60/60		60/60		60/60
iC60H		30		40/40		50/50		80/80		80/80		80/80		80/80
iC60L	≤ 25	50				65/65		80/80		80/80		80/80		80/80
	32-40	36		40/40		65/65		80/80		80/80		80/80		80/80
	50-63	30		40/40		65/65		80/80		80/80		80/80		80/80
NG125N	≤ 20	50				60/60		70/70		70/70		85/85		85/85
	25 to 125	50												
NG125H	≤ 20	70				85/85		85/85		85/85		100/100		100/100
	25 to 80	70												

Upstream		NSX250					
		B	F	N	H	S	L
	Icu (kA)	40	85	90	100	120	150
	Trip unit	TM-D					

Downstream								
Rating (A)			200-250	200-250	200-250	200-250	200-250	200-250
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)					
iC60N		20	30/30	40/40	60/60	60/60	60/60	60/60
iC60H		30	40/40	50/50	65/65	65/65	65/65	65/65
iC60L	≤ 25	50		65/65	80/80	80/80	80/80	80/80
	32-40	36	40/40	65/65	80/80	80/80	80/80	80/80
	50-63	30	40/40	40/40	65/65	65/65	65/65	65/65
C120N/H		20/30	40/40	40/40	50/50	50/50	70/70	70/70
NG125N		50		60/60	70/70	70/70	85/85	85/85
NG125H		70		85/85	85/85	85/85	100/100	100/100

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".

Selectivity enhanced by cascading

Upstream: Compact NSX100, NSX160, NSX250, Micrologic
Downstream: iC60, C120, NG125

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream		NSX100					
		B	F	N	H	S	L
	Icu (kA)	40	85	90	100	120	150
	Trip unit	Micrologic [1]					

Downstream														
Rating (A)			40	100	40	100	40	100	40	100	40	100	40	100
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)											
iC60N	≤ 25	20	40/40	40/40	40/40	40/40	60/60	60/60	60/60	60/60	60/60	60/60	60/60	60/60
	32-40	20		40/40		40/40		60/60		60/60		60/60		60/60
	50-63	20												
iC60H	≤ 25	30	40/40	40/40	50/50	50/50	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80
	32-40	30		40/40		50/50		80/80		80/80		80/80		80/80
	50-63	30												
iC60L	≤ 25	50			65/65	65/65	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80
	32-40	36				65/65		80/80		80/80		80/80		80/80
	50-63	30												

Upstream		NSX160					
		B	F	N	H	S	L
	Icu (kA)	40	85	90	100	120	150
	Trip unit	Micrologic [1]					

Downstream														
Rating (A)			80	160	80	160	80	160	80	160	80	160	80	160
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)											
iC60N	≤ 50	20	40/40	40/40	40/40	40/40	60/60	60/60	60/60	60/60	60/60	60/60	60/60	60/60
	63	20		40/40		40/40		60/60		60/60		60/60		60/60
iC60H	≤ 50	30	40/40	40/40	50/50	50/50	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80
	63	30		40/40		50/50		80/80		80/80		80/80		80/80
iC60L	≤ 40	36			65/65	65/65	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80
	50	30	40/40	40/40	65/65	65/65	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80
	63	30		40/40		65/65		80/80		80/80		80/80		80/80

Upstream		NSX250					
		B	F	N	H	S	L
	Icu (kA)	40	85	90	100	120	150
	Trip unit	Micrologic [1]					

Downstream								
Rating (A)			250	250	250	250	250	250
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)					
iC60N		20	40/40	40/40	60/60	60/60	60/60	60/60
iC60H		30	40/40	50/50	65/65	65/65	65/65	65/65
iC60L	≤ 25	50		65/65	80/80	80/80	80/80	80/80
	32-40	36		65/65	80/80	80/80	80/80	80/80
	50-63	30	40/40	65/65	65/65	65/65	65/65	65/65
C120N/H		20/30	40/40	40/40	50/50	50/50	70/70	70/70
NG125N		50		60/60	70/70	70/70	85/85	85/85
NG125H		70		85/85	85/85	85/85	100/100	100/100

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".
[1] Applicable for all "Distribution" Micrologic of Compact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) Micrologic of Compact NSX range but curves shall be checked. Not applicable for "Motor" Micrologic of Compact NSX range ("M" type).

Selectivity enhanced by cascading

Upstream: Compact NSX250, TM-D, Micrologic
Downstream: Compact NSXm, NSX100

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream			NSX250					
			B	F	N	H	S	L
		Icu (kA)	40	85	90	100	120	150
		Trip unit	TM-D					

Downstream Rating (A)			200-250	200-250	200-250	200-250	200-250	200-250
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)					
NSXm E		25	40/40	85/85	85/85	85/85	85/85	85/85
NSXm B		50		85/85	90/90	100/100	100/100	100/100
NSXm F		85			90/90	100/100	100/100	100/100
NSXm N		90				100/100	100/100	100/100
NSX100 B	≤ 25	40		85/85	90/90	100/100	100/100	100/100
TM-D	40 - 100			36/85	36/90	36/100	36/100	36/100
NSX100F	≤ 25	85			90/90	100/100	120/120	150/150
TM-D	40 - 100				36/90	36/100	36/120	36/150
NSX100N	≤ 25	90				100/100	120/120	150/150
TM-D	40 - 100					36/100	36/120	36/150
NSX100H	≤ 25	100					120/120	150/150
TM-D	40 - 100						36/120	36/150
NSX100S	≤ 25	120						150/150
TM-D	40 - 100							36/150
NSX100 B Micrologic		40		2/85	2/90	2/100	2/100	2/100
NSX100 F Micrologic		85			2/90	2/100	2/120	2/150
NSX100 N Micrologic		90				2/100	2/120	2/150
NSX100 H Micrologic		100					2/120	2/150
NSX100 S Micrologic		120						2/150

Upstream			NSX250					
			B	F	N	H	S	L
		Icu (kA)	40	85	90	100	120	150
		Trip unit	Micrologic [1]					

Downstream Rating (A)			200-250	200-250	200-250	200-250	200-250	200-250
	Rating (A)	Icu (kA)	Reinforced breaking capacity (kA)					
NSXm E	≤ 125	25	40/40	85/85	85/85	85/85	85/85	85/85
NSXm B	≤ 125	50		85/85	90/90	100/100	100/100	100/100
NSXm F	≤ 125	85			90/90	100/100	100/100	100/100
NSXm N	≤ 125	90				100/100	100/100	100/100
NSX100B	≤ 25	40		85/85	90/90	100/100	100/100	100/100
TM-D	40-100			36/85	36/90	36/100	36/100	36/100
NSX100F	≤ 25	85			90/90	100/100	120/120	150/150
TM-D	40-100				36/90	36/100	36/120	36/150
NSX100N	≤ 25	90				100/100	120/120	150/150
TM-D	40-100					36/100	36/120	36/150
NSX100H	≤ 25	100					120/120	150/150
TM-D	40-100						36/120	36/150
NSX100S	≤ 25	120						150/150
TM-D	40-100							36/150
NSX100B Micrologic		40		36/85	36/90	36/100	36/100	36/100
NSX100F Micrologic		85			36/90	36/100	36/120	36/150
NSX100N Micrologic		90				36/100	36/120	36/150
NSX100H Micrologic		100					36/120	36/150
NSX100S	120	120						36/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".
[1] Applicable for all "Distribution" Micrologic of Compact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) Micrologic of Compact NSX range but curves shall be checked. Not applicable for "Motor" Micrologic of Compact NSX range ("M" type).

Selectivity enhanced by Cascading

Upstream: Compact NSX400, NSX630, NS800L, NS800LB, NS1000L, Micrologic
Downstream: Compact NSXm, NSX100, NSX160, NSX250, NSX400, NSX630

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream		NSX400				NSX630				NS800		NS1000
		N	H	S	L	N	H	S	L	L	LB	L
	Icu (kA)	85	100	120	150	85	100	120	150	150	200	150
	Trip unit	Micrologic [1]										

Downstream													
Rating (A)			400	400	400	400	630	630	630	630	800		1000
	Trip unit	Icu (kA)	Reinforced breaking capacity (kA)										
NSX100B	TM-D	40	85/85	90/90	100/100	100/100	85/85	90/90	100/100	100/100	50/50	50/50	50/50
NSX100F	TM-D	85		90/90	120/120	150/150		90/90	120/120	150/150	150/150	150/150	150/150
NSX100N	TM-D	90		100/100	120/120	150/150		100/100	120/120	150/150	150/150	150/150	150/150
NSX100H	TM-D	100			120/120	150/150			120/120	150/150	150/150	150/150	150/150
NSX100S	TM-D	120				150/150				150/150	150/150	200/200	150/150
NSX100L	TM-D	150										200/200	
NSX160B	TM-D	40	85/85	90/90	100/100	100/100	85/85	90/90	100/100	100/100	50/50	50/50	50/50
NSX160F	TM-D	85		90/90	120/120	150/150		90/90	120/120	150/150	150/150	150/150	150/150
NSX160N	TM-D	90		100/100	120/120	150/150		100/100	120/120	150/150	150/150	150/150	150/150
NSX160H	TM-D	100			120/120	150/150			120/120	150/150	150/150	150/150	150/150
NSX160S	TM-D	120				150/150				150/150	150/150	200/200	150/150
NSX160L	TM-D	150										200/200	
NSX250B	TM-D	40					85/85	90/90	100/100	100/100	50/50	50/50	50/50
NSX250F	TM-D	85						90/90	120/120	150/150	150/150	150/150	150/150
NSX250N	TM-D	90						100/100	120/120	150/150	150/150	150/150	150/150
NSX250H	TM-D	100							120/120	150/150	150/150	150/150	150/150
NSX250S	TM-D	120								150/150	150/150	200/200	150/150
NSX250L	TM-D	150										200/200	
NSX100B	Micrologic	40	85/85	90/90	100/100	100/100	85/85	90/90	100/100	100/100	50/50	50/50	50/50
NSX100F	Micrologic	85		90/90	120/120	150/150		90/90	120/120	150/150	150/150	150/150	150/150
NSX100N	Micrologic	90		100/100	120/120	150/150		100/100	120/120	150/150	150/150	150/150	150/150
NSX100H	Micrologic	100			120/120	150/150			120/120	150/150	150/150	150/150	150/150
NSX100S	Micrologic	120				150/150				150/150	150/150	200/200	150/150
NSX100L	Micrologic	150										200/200	
NSX160B	Micrologic	40	85/85	90/90	100/100	100/100	85/85	90/90	100/100	100/100	50/50	50/50	50/50
NSX160F	Micrologic	85		90/90	120/120	150/150		90/90	120/120	150/150	150/150	150/150	150/150
NSX160N	Micrologic	90		100/100	120/120	150/150		100/100	120/120	150/150	150/150	150/150	150/150
NSX160H	Micrologic	100			120/120	150/150			120/120	150/150	150/150	150/150	150/150
NSX160S	Micrologic	120				150/150				150/150	150/150	200/200	150/150
NSX160L	Micrologic	150										200/200	
NSX250B	Micrologic	40					85/85	90/90	100/100	100/100	50/50	50/50	50/50
NSX250F	Micrologic	85						90/90	120/120	150/150	150/150	150/150	150/150
NSX250N	Micrologic	90						100/100	120/120	150/150	150/150	150/150	150/150
NSX250H	Micrologic	100							120/120	150/150	150/150	150/150	150/150
NSX250S	Micrologic	120								150/150	150/150	200/200	150/150
NSX250L	Micrologic	150										200/200	
NSX400F	Micrologic	40									10/150	10/150	15/150
NSX400N	Micrologic	85									10/150	10/150	15/150
NSX400H	Micrologic	100									10/150	10/150	15/150
NSX400S	Micrologic	120									10/150	10/200	15/150
NSX400L	Micrologic	150										10/200	
NSX630F	Micrologic	40											10/150
NSX630N	Micrologic	85											10/150
NSX630H	Micrologic	100											10/150
NSX630S	Micrologic	120											10/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online "Electrical calculation tools".
[1] Applicable for all "Distribution" Micrologic of Compact NSX range: 2.3 4.3, 5.3, 6.3, 7.3. For 4.3 and 7.3 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) Micrologic of Compact NSX range but curves shall be checked Not applicable for "Motor" Micrologic of Compact NSX range ("M" type).

Motor protection selectivity

Contents

Using the tables

Two circuit breakers offer total selectivity when the corresponding box in the selectivity table is shaded or contains the letter T.
When selectivity is partial for the combination, the corresponding box indicates the maximum value of the fault current for which selectivity is provided.
For fault currents above this value, the two circuit breakers trip simultaneously.

Application	Upstream device	Downstream device	Table page
Motor protection selectivity	Compact NSX100 to 250 TM-D	GV2, GV3, GV4, LUB12, LUB32, Integral 63, Compact NSX100	page 151
		iC60L MA NG125L MA, GV2, GV3, GV4, Compact NSX100	page 152
	Compact NSX100 to 160 Micrologic	GV2, GV3,GV4, LUB12, LUB32, Integral 63, Compact NSX100	page 153
	Compact NSX250 to 630 Micrologic	GV2, GV3, GV4, LUB12, LUB32, Integral 63, NSX100 to 250	page 155
	Compact NS630b to 1600 N/H Micrologic 2.0/5.0/6.0/7.0	iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, NSX100 to 630	page 157
	Compact NS630b to 1000 L Micrologic 2.0/5.0/6.0/7.0	iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, NSX100 to 630	page 158
	Compact NS1600b to 3200 N Micrologic 2.0/5.0/6.0/7.0	iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, NSX100 to 630	page 159
	Masterpact MTZ1 06 - 16 H1/H2/H3 Micrologic 2.0/5.0/6.0/7.0	iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, NSX100 to 630	page 160
	Masterpact MTZ1 06 - 10 L1 Micrologic 2.0/5.0/6.0/7.0	iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, NSX100 to 630	page 161
	Masterpact MTZ2 08/10/12/16/20 N1/H1/H2/L1 Micrologic 2.0/5.0/6.0/7.0	iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, NSX100 to 630	page 162
	Masterpact MTZ2 25/32/40 H1/H2, MTZ3 40/50/63 H1 Micrologic 2.0/5.0/6.0/7.0	iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, NSX100 to 630	page 163
	Masterpact MTZ2 25/32/40 H3, MTZ3 40/50/63 H2 Micrologic 2.0/5.0/6.0/7.0	iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, NSX100 to 630	page 164
Motor protection cascading	NG125, NSXm, Compact NSX	iC60, NG125, Compact NS, TeSys U, GV2, GV3, GV4	page 165
Selectivity enhanced by cascading 380/415V	Compact NSX160 to 400	TeSys U, Integral 63	page 168
	Compact NSX160	GV2 ME	page 169
		GV2 P	page 170
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Selectivity enhanced by cascading440V	Compact NSX160 to 400	TeSys U	page 172
Protection of motor circuits	Circuit breaker/contactor coordination		page 173
	Using the circuit breaker/contactor		page 178
	Type 2 coordination		page 182
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	Protection of motor circuits with fuses: general		page 207
	Protection of motor circuits with BS fuses		page 208
	Protection of motor circuits with NFC fuses		page 209
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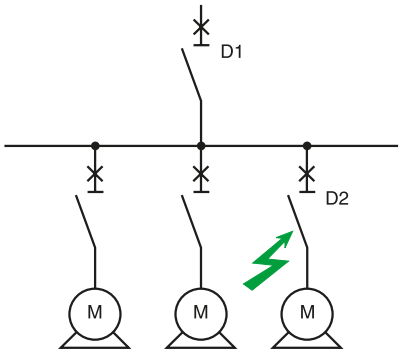

Selectivity between circuit breakers used for motor protection.

How to use the selectivity tables

■ **For selectivity between a circuit breaker and a motor control and protection assembly**

If selectivity is partial, the table indicates the maximum fault current value for which selectivity is ensured. For fault currents above this value, the 2 devices trip simultaneously.

Requisite conditions

The values indicated in the tables (for 220, 380, 415 and 440 V) are guaranteed if the following conditions are respected:

Upstream	Downstream	Thermal protection Ir up/Ir down	Magnetic protection Im up/Im down
TM	MA + separate therm. relay	≥ 3	≥ 2
	Thermal-magnetic motor type	≥ 3	≥ 2
Micrologic	MA + separate therm. relay	≥ 3	≥ 1.5
	Thermal-magnetic motor type	≥ 3	≥ 1.5

Motor protection selectivity

Upstream: Compact NSX100 to 250 TM-D

Downstream: GV2, GV3, GV4, LUB12, LUB32, Integral 63, Compact NSX100 to 250

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Upstream			NSX100B/F/N/H/S/L/R										NSX160B/F/N/H/S/L		NSX250B/F/N/H/S/L/R		
Trip unit			TM-D														
Downstream		Rating (A)	16	25	32	40	50	63	80	100	80	100	125	160	160	200	250
		Setting (Ir)	16	25	32	40	50	63	80	100	80	100	125	160	160	200	250
	Trip unit or rating	Th Relay	Setting range	Selectivity limit (kA)													
GV2 ME/P	01	Integrated	0.1/0.16	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	02	Integrated	0.16/0.25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	03	Integrated	0.25/0.40	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	04	Integrated	0.40/0.63	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	05	Integrated	0.63/1	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	06	Integrated	1/1.6	0.19	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	07	Integrated	1.6/2.5	0.19	0.25	0.4	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	08	Integrated	2.5/4	0.19	0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 ME/P	10	Integrated	4/6.3		0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 ME/P	14	Integrated	06/10			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 ME/P	16	Integrated	9/14					0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 ME/P	20	Integrated	13/18							0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 ME/P	21	Integrated	17/23							0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 ME/P	22	Integrated	20/25							0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 ME/P	32	Integrated	24/32							0.63	0.8	0.63	0.8	T	T	T	T	T
GV3 P	13	Integrated	01/13				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV3 P	18	Integrated	12/18					0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV3 P	25	Integrated	17/25						0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV3 P	32	Integrated	23/32							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV3 P	40	Integrated	30/40											1.25	1.25	1.25	T	T
GV3 P	50	Integrated	37/50												1.25	1.25	T	T
GV3 P	65	Integrated	48/65															T
GV4P/PE/PEM	02	Integrated	0,8/2	0.19	0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4P/PE/PEM	03	Integrated	1,4/3,5		0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4P/PE/PEM	07	Integrated	2,9/7		0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4P/PE/PEM	12	Integrated	5/12,5				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4P/PE/PEM	25	Integrated	10/25							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4P/PE/PEM	50	Integrated	20/50												1.25	1.25	T	T
GV4P/PE/PEM	80	Integrated	40/80															T
GV4P/PE/PEM	115	Integrated	65/115															
LUB12		LUC*X6	0.15/0.6	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
LUB12		LUC*1X	0.35…1.4	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
LUB12		LUC*05	1.25…5	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
LUB12		LUC*12	3…12				0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
LUB32		LUC*X6	0.15…0.6	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	5	5	5	T	T
LUB32		LUC*1X	0.35…1.4	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	5	5	5	T	T
LUB32		LUC*05	1.25…5	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	5	5	5	T	T
LUB32		LUC*12	3…12				0.5	0.5	0.5	0.63	0.8	0.63	0.8	5	5	5	T	T
LUB32		LUC*18	4.5…18						0.5	0.63	0.8	0.63	0.8	5	5	5	T	T
LUB32		LUC*32	8…32								0.8		0.8	5	5	5	T	T
Intergral 63		LB1-LD03M16	1/13				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1	1	1	T	T
Intergral 63		LB1-LD03M21	13/18						0.5	0.63	0.8	0.63	0.8	1	1	1	T	T
Intergral 63		LB1-LD03M22	18/25							0.63	0.8	0.63	0.8	1	1	1	T	T
Intergral 63		LB1-LD03M53	23/32									0.8	0.8	1	1	1	T	T
Intergral 63		LB1-LD03M55	28/40											1	1	1	T	T
Intergral 63		LB1-LD03M57	35/50												1	1	T	T
NSX100 F/N/H/S/L/R		Mic. 2.2M or 6.2EM	25/50									0.8	0.8	1	1	1	36	36
			100															36
NSX160 F/N/H/S/L/R		Mic. 2.2M or 6.2EM	100											1	1	1	2	2.5
			150															2.5
NSX250 F/N/H/S/L/R		Mic. 2.2M or 6.2EM	150											1	1	1	2	2.5
			220															2.5

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: Compact NSX100 to 250 TM-D
Downstream: iC60L MA, NG125L MA, GV2, GV3, GV4, Compact NSX100

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Upstream			NSX100B/F/N/H/S/L/R								NSX160B/F/N/H/S/L					NSX250B/F/N/H/S/L/R	
Trip unit			TM-D														
Downstream			Rating (A)	16	25	32	40	50	63	80	100	80	100	125	160	160	200	250
			Setting (Ir)	16	25	32	40	50	63	80	100	80	100	125	160	160	200	250
CB	Rating	Th Relay	Setting range	Selectivity limit (kA)														
iC60L MA	1.6	LRD6	1/1.6	0.19	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	2.5	LRD7	1.6/2.5	0.19	0.3	0.4	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	4	LRD8	2.5/4	0.19	0.3	0.4	0.5	0.5	0.5	0.63	T	0.63	T	T	T	T	T	T
iC60L MA	6.3	LRD10	4/6.3		0.3	0.4	0.5	0.5	0.5	0.63	5	0.63	5	T	T	T	T	T
iC60L MA	10	LRD12	5.5/8		0.3	0.4	0.5	0.5	0.5	0.63	2	0.63	2	T	T	T	T	T
iC60L MA	10	LRD14	07/10			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
iC60L MA	12.5	LRD16	9/13				0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
iC60L MA	16	LRD21	12/18						0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
iC60L MA	25	LRD22	17/25							0.63	0.8	0.63	0.8	T	T	T	T	T
iC60L MA	40	LRD32	23/32								0.8		0.8	T	T	T	T	T
iC60L MA	40	LRD3355	30/40											T	T	T	T	T
NG125L MA	1.6	LRD6	1/1.6	0.19	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	2.5	LRD7	1.6/2.5	0.19	0.3	0.4	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	4	LRD8	2.5/4	0.19	0.3	0.4	0.5	0.5	0.5	0.63	T	0.63	T	T	T	T	T	T
NG125L MA	6.3	LRD10	4/6.3		0.3	0.4	0.5	0.5	0.5	0.63	5	0.63	5	T	T	T	T	T
NG125L MA	10	LRD12	5.5/8		0.3	0.4	0.5	0.5	0.5	0.63	2	0.63	2	T	T	T	T	T
NG125L MA	10	LRD14	07/10			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
NG125L MA	12.5	LRD16	9/13				0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
NG125L MA	16	LRD21	12/18						0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
NG125L MA	25	LRD22	17/25							0.63	0.8	0.63	0.8	T	T	T	T	T
NG125L MA	40	LRD32	23/32								0.8		0.8	T	T	T	T	T
NG125L MA	40	LRD3355	30/40											T	T	T	T	T
NG125L MA	63	LRD3357	37/50												T	T	T	T
NG125L MA	63	LRD3359	48/65														T	T
GV2 L/LE	03	LRD3	0.25/0.40	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	04	LRD4	0.40/0.63	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	05	LRD5	0.63/1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	06	LRD6	1/1.6	0.19	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	07	LRD7	1.6/2.5	0.19	0.25	0.4	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	08	LRD8	2.5/4	0.19	0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 L/LE	10	LRD10	4/6.3		0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 L/LE	14	LRD14	07/10			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 L/LE	16	LRD16	9/13					0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 L/LE	20	LRD21	12/18							0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 L/LE	22	LRD22	17/25							0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 L/LE	32	LRD32	23/32								0.8		0.8	T	T	T	T	T
GV3 L	25	LRD22	20/25							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV3 L	32	LRD32	23/32								0.8		0.8	1.25	1.25	1.25	T	T
GV3 L	40	LRD340	30/40											1.25	1.25	1.25	T	T
GV3 L	50	LRD350	37/50												1.25	1.25	T	T
GV3 L	65	LRD365	48/65														T	T
GV4 L/LE	02	LRD-07	1,6/2,5	0.19	0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4 L/LE	03	LRD-08	2,5/4		0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4 L/LE	07	LRD-12	5,5/8		0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4 L/LE	12	LRD-313	9/13				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4 L/LE	25	LRD-325	17/25							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4 L/LE	50	LRD-350	37/50												1.25	1.25	T	T
GV4 L/LE	80	LRD-33 63	63/80															T
GV4 L/LE	115	LR9D-5369 LR9-F5369	90/150															
NSX100 [1]	MA2.5	LRD6	1/1.6	0.19	0.3	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 [1]	MA2.5	LRD7	1.6/2.5	0.19	0.3	0.4	0.5	0.5	0.5	T	T	T	T	T	T	T	T	T
NSX100 [1]	MA6.3	LRD8	2.5/4	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
NSX100 [1]	MA6.3	LRD10	4/6.3		0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
NSX100 [1]	MA12.5	LRD12	5.5/8		0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1	1	1	T	T
NSX100 [1]	MA12.5	LRD14	9/13			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1	1	1	T	T
NSX100 [1]	MA12.5	LRD16	12/18				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1	1	1	T	T
NSX100 [1]	MA25	LRD21	17/25						0.5	0.63	0.8	0.63	0.8	1	1	1	T	T
NSX100 [1]	MA25	LRD22	17/25							0.63	0.8	0.63	0.8	1	1	1	T	T
NSX100 [1]	MA50	LRD32	23/32								0.8		0.8	1	1	1	36	36
NSX100 [1]	MA50	LRD340	30/40											1	1	1	36	36
NSX100 [1]	MA50	LRD350	37/50												1	1	36	36
NSX100 [1]	MA100	LRD365	48/65														36	36
NSX100 [1]	MA100	LRD3363	63/80														36	36

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] F/N/H/S/L/R

Motor protection selectivity

Upstream: Compact NSX100 to 160 Micrologic
Downstream: GV2, GV3, GV4, LUB12, LUB32, Integral 63, Compact NSX100

Ue ≤ 440 V AC

Upstream			NSX100B/F/N/H/S/L/R							NSX160B/F/N/H/S/L				
Trip unit			Micrologic [1]											
Downstream			Rating (A)	40			100				160				
			Setting Ir	16	25	40	40	63	80	100	63	80	100	125	160
	Trip unit or rating	Th Relay	Setting range	Selectivity limit (kA)											
GV2 ME/P	01	Integrated	0.1/0.16	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	02	Integrated	0.16/0.25	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	03	Integrated	0.25/0.40	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	04	Integrated	0.40/0.63	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	05	Integrated	0.63/1	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	06	Integrated	1/1.6	0.6	0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 ME/P	07	Integrated	1.6/2.5	0.6	0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 ME/P	08	Integrated	2.5/4	0.6	0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 ME/P	10	Integrated	4/6.3		0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 ME/P	14	Integrated	06/10			0.6	T	T	T	T	T	T	T	T	T
GV2 ME/P	16	Integrated	9/14					T	T	T	T	T	T	T	T
GV2 ME/P	20	Integrated	13/18					T	T	T	T	T	T	T	T
GV2 ME/P	21	Integrated	17/23							T	T	T	T	T	T
GV2 ME/P	22	Integrated	20/25							T	T	T	T	T	T
GV2 ME/P	32	Integrated	24/32									T	T	T	T
GV3 P	13	Integrated	01/13			0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
GV3 P	18	Integrated	12/18					1.5	1.5	1.5	T	T	T	T	T
GV3 P	25	Integrated	17/25							1.5	1.5	T	T	T	T
GV3 P	32	Integrated	23/32									1.5	T	T	T
GV3 P	40	Integrated	30/40											2.4	2.4
GV3 P	50	Integrated	37/50												2.4
GV3 P	65	Integrated	48/65												
GV4P/PE/PEM	02	Integrated	0,8/2	T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	03	Integrated	1,4/3,5	25	25	25	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	07	Integrated	2,9/7		2	2	2	2	2	2	4	4	4	4	4
GV4P/PE/PEM	12	Integrated	5/12,5					1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4
GV4P/PE/PEM	25	Integrated	10/25						1.5	1.5		2.4	2.4	2.4	2.4
GV4P/PE/PEM	50	Integrated	20/50												2.4
GV4P/PE/PEM	80	Integrated	40/80												
GV4P/PE/PEM	115	Integrated	65/115												
LUB12		LUC*X6	0.15/0.6	0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
LUB12		LUC*1X	0.35…1.4	0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
LUB12		LUC*05	1.25…5	0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
LUB12		LUC*12	3…12				1.5	1.5	1.5	1.5	T	T	T	T	T
LUB32		LUC*X6	0.15…0.6	0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
LUB32		LUC*1X	0.35…1.4	0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
LUB32		LUC*05	1.25…5	0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
LUB32		LUC*12	3…12				1.5	1.5	1.5	1.5	T	T	T	T	T
LUB32		LUC*18	4.5…18					1.5	1.5	1.5	T	T	T	T	T
LUB32		LUC*32	8…32							1.5			T	T	T
Intergral 63		LB1-LD03M16	1/13			0.6	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4
Intergral 63		LB1-LD03M21	13/18					1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4
Intergral 63		LB1-LD03M22	18/25							1.5	1.5	2.4	2.4	2.4	2.4
Intergral 63		LB1-LD03M53	23/32									1.5	2.4	2.4	2.4
Intergral 63		LB1-LD03M55	28/40											2.4	2.4
Intergral 63		LB1-LD03M57	35/50												2.4
Intergral 63		LB1-LD03M61	45/63												
NSX100 F/N/H/S/L/R		Mic. 2.2M or 6.2EM	25/50							1,5			2,4	2,4	2,4
			100												
NSX160 F/N/H/S/L/R		Mic. 2.2M or 6.2EM	100										2,4	2,4	2,4
			150												
NSX250 F/N/H/S/L/R		Mic. 2.2M or 6.2EM	150												
			220												

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] Valid for all "Distribution" Micrologic of Compact NSX : 2.2, 4.2, 5.2, 6.2, 7.2. Valid for Generators (and Service connection (G and AB type) Micrologic of Compact NSX but curves shall be checked. Not Valid for "Motor" Micrologic of Compact NSX ("M" type).

Motor protection selectivity

Upstream: Compact NSX100 to 160, Micrologic
Downstream: iC60L MA, NG125L MA, GV2, GV3, GV4, Compact NSX100

Ue ⩽ 440 V AC

Upstream			NSX100B/F/N/H/S/L/R							NSX160B/F/N/H/S/L				
Trip unit			Micrologic [1]											
Downstream		Rating (A)	40			100				160				
		Setting Ir	16	25	40	40	63	80	100	63	80	100	125	160
CB	Rating	Th Relay	Setting range	Selectivity limit (kA)										
iC60L MA	1.6	LRD6	1/1.6	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	2.5	LRD7	1.6/2.5	1	1	1	T	T	T	T	T	T	T	T	T
iC60L MA	4	LRD8	2.5/4	0,6	0,6	0,6	T	T	T	T	T	T	T	T	T
iC60L MA	6.3	LRD10	4/6.3	0,6	0,6	0,6	5	5	5	5	T	T	T	T	T
iC60L MA	10	LRD12	5.5/8		0,6	0,6	2	2	2	2	T	T	T	T	T
iC60L MA	10	LRD14	07/10			0,6	1,5	1,5	1,5	1,5	T	T	T	T	T
iC60L MA	12.5	LRD16	9/13			0,6	1,5	1,5	1,5	1,5	T	T	T	T	T
iC60L MA	16	LRD21	12/18					1,5	1,5	1,5	T	T	T	T	T
iC60L MA	25	LRD22	17/25						1,5	1,5		T	T	T	T
iC60L MA	40	LRD32	23/32							1,5			T	T	T
iC60L MA	40	LRD3355	30/40											T	T
NG125L MA	1.6	LRD6	1/1.6	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	2.5	LRD7	1.6/2.5	1	1	1	T	T	T	T	T	T	T	T	T
NG125L MA	4	LRD8	2.5/4	0,6	0,6	0,6	T	T	T	T	T	T	T	T	T
NG125L MA	6.3	LRD10	4/6.3	0,6	0,6	0,6	5	5	5	5	T	T	T	T	T
NG125L MA	10	LRD12	5.5/8		0,6	0,6	2	2	2	2	T	T	T	T	T
NG125L MA	10	LRD14	07/10			0,6	1,5	1,5	1,5	1,5	T	T	T	T	T
NG125L MA	12.5	LRD16	9/13			0,6	1,5	1,5	1,5	1,5	T	T	T	T	T
NG125L MA	16	LRD21	12/18					1,5	1,5	1,5	T	T	T	T	T
NG125L MA	25	LRD22	17/25						1,5	1,5		T	T	T	T
NG125L MA	40	LRD32	23/32							1,5			T	T	T
NG125L MA	40	LRD3355	30/40										T	T	T
NG125L MA	63	LRD3357	37/50											T	T
NG125L MA	63	LRD3359	48/65												T
GV2 L/LE	03	LRD3	0.25/0.40	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	04	LRD4	0.40/0.63	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	05	LRD5	0.63/1	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	06	LRD6	1/1.6	0.6	0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 L/LE	07	LRD7	1.6/2.5	0.6	0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 L/LE	08	LRD8	2.5/4	0.6	0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 L/LE	10	LRD10	4/6.3		0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 L/LE	14	LRD14	07/10			0.6	T	T	T	T	T	T	T	T	T
GV2 L/LE	16	LRD16	9/13					T	T	T	T	T	T	T	T
GV2 L/LE	20	LRD21	12/18						T	T	T	T	T	T	T
GV2 L/LE	22	LRD22	17/25						T	T	T	T	T	T	T
GV2 L/LE	32	LRD32	23/32							T	T	T	T	T	T
GV3 L	25	LRD22	20/25							1.5	1.5	T	T	T	T
GV3 L	32	LRD32	23/32									1.5	T	T	T
GV3 L	40	LRD340	30/40											2.4	2.4
GV3 L	50	LRD350	37/50												2.4
GV3 L	65	LRD365	48/65												
GV4 L/LE	02	LRD-07	1,6/2,5	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	03	LRD-08	2,5/4	25	25	25	T	T	T	T	T	T	T	T	T
GV4 L/LE	07	LRD-12	5,5/8		2	2	2	2	2	2	4	4	4	4	4
GV4 L/LE	12	LRD-313	9/13					1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4
GV4 L/LE	25	LRD-325	17/25						1.5	1.5		2.4	2.4	2.4	2.4
GV4 L/LE	50	LRD-350	37/50												2.4
GV4 L/LE	80	LRD-33 63	63/80												
GV4 L/LE	115	LR9D-5369 LR9-F5369	90/150												
NSX100	MA2.5	LRD6	1/1.6	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA2.5	LRD7	1.6/2.5	1	1	1	T	T	T	T	T	T	T	T	T
NSX100	MA6.3	LRD8	2.5/4	0,6	0,6	0,6	1,5	1,5	1,5	1,5	T	T	T	T	T
NSX100	MA6.3	LRD10	4/6.3		0,6	0,6	1,5	1,5	1,5	1,5	T	T	T	T	T
NSX100	MA12.5	LRD12	5.5/8		0,6	0,6	1,5	1,5	1,5	1,5	2,4	2,4	2,4	2,4	2,4
NSX100	MA12.5	LRD14	9/13			0,6	1,5	1,5	1,5	1,5	2,4	2,4	2,4	2,4	2,4
NSX100	MA12.5	LRD16	12/18			0,6	1,5	1,5	1,5	1,5	2,4	2,4	2,4	2,4	2,4
NSX100	MA25	LRD21	17/25					1,5	1,5	1,5	2,4	2,4	2,4	2,4	2,4
NSX100	MA25	LRD22	17/25						1,5	1,5		2,4	2,4	2,4	2,4
NSX100	MA50	LRD32	23/32							1,5			2,4	2,4	2,4
NSX100	MA50	LRD340	30/40											2,4	2,4
NSX100	MA50	LRD350	37/50												2,4
NSX100	MA100	LRD365	48/65												
NSX100	MA100	LRD3363	63/80												

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] Valid for all "Distribution" Micrologic of Compact NSX : 2.2, 4.2, 5.2, 6.2, 7.2. Valid for Generators (and Service connection (G and AB type) Micrologic of Compact NSX but curves shall be checked. Not Valid for "Motor" Micrologic of Compact NSX ("M" type).

Motor protection selectivity

Upstream: Compact NSX250 to 630 Micrologic
Downstream: GV2, GV3, GV4, LUB12, LUB32, Integral 63, Compact NSX100 to 250

Ue ⩽ 440 V AC

Upstream			NSX250B/F/N/H/S/L/R					NSX400F/N/H/S/L/R					NSX630F/N/H/S/L/R				
Trip unit			Micrologic [1]														
Downstream			Rating (A)	250					400					630				
			Ir setting	100	125	160	200	250	160	200	250	320	400	250	320	400	500	630
CB	Rating	Th Relay	Setting range	Selectivity limit (kA)														
GV2 ME/P	01	Integrated	0.1/0.16	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	02	Integrated	0.16/0.25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	03	Integrated	0.25/0.40	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	04	Integrated	0.40/0.63	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	05	Integrated	0.63/1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	06	Integrated	1/1.6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	07	Integrated	1.6/2.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	08	Integrated	2.5/4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	10	Integrated	4/6.3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	14	Integrated	06/10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	16	Integrated	9/14	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	20	Integrated	13/18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	21	Integrated	17/23	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	22	Integrated	20/25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	32	Integrated	24/32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P	13	Integrated	01/13	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P	18	Integrated	12/18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P	25	Integrated	17/25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P	32	Integrated	23/32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P	40	Integrated	30/40		T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P	50	Integrated	37/50			T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P	65	Integrated	48/65				T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	02	Integrated	0,8/2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	03	Integrated	1,4/3,5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	07	Integrated	2,9/7	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	12	Integrated	5/12,5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	25	Integrated	10/25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	50	Integrated	20/50			T	T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	80	Integrated	40/80					T			T	T	T	T	T	T	T	T
GV4P/PE/PEM	115	Integrated	65/115									T	T	T	T	T	T	T
LUB12		LUC*X6	0.15/0.6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12		LUC*1X	0.35…1.4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12		LUC*05	1.25…5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12		LUC*12	3…12	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32		LUC*X6	0.15…0.6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32		LUC*1X	0.35…1.4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32		LUC*05	1.25…5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32		LUC*12	3…12	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32		LUC*18	4.5…18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32		LUC*32	8…32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Intergral 63		LB1-LD03M16	1/13	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Intergral 63		LB1-LD03M21	13/18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Intergral 63		LB1-LD03M22	18/25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Intergral 63		LB1-LD03M53	23/32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Intergral 63		LB1-LD03M55	28/40		T	T	T	T	T	T	T	T	T	T	T	T	T	T
Intergral 63		LB1-LD03M57	35/50			T	T	T	T	T	T	T	T	T	T	T	T	T
Intergral 63		LB1-LD03M61	45/63				T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R		Mic. 2.2M or 6.2EM	25/50	36	36	36	36	36	T	T	T	T	T	T	T	T	T	T
			100					36			T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L/R		Mic. 2.2M or 6.2EM	100					3			T	T	T	T	T	T	T	T
			150										4,8			T	T	T
NSX250 F/N/H/S/L/R		Mic. 2.2M or 6.2EM	150													T	T	T
			220															T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] Valid for all "Distribution" Micrologic of Compact NSX : 2.2/3, 4.2/3 5.2/3, 6.2/3, 7.2/3. Valid for Generators (and Service connection (G and AB type) Micrologic of Compact NSX but curves shall be checked. Not Valid for “Motor” Micrologic of Compact NSX ("M" type).

Motor protection selectivity

Upstream: Compact NSX250 to 630 Micrologic
Downstream: iC60L MA, NG125L MA, GV2, GV3, GV4, Compact NSX100 to 250

Ue ⩽ 440 V AC

Upstream			NSX250B/F/N/H/S/L/R					NSX400F/N/H/S/L/R					NSX630F/N/H/S/L/R				
Trip unit			Micrologic [1]														
Downstream			Rating (A)	250					400					630				
			Ir setting	100	125	160	200	250	160	200	250	320	400	250	320	400	500	630
CB	Rating	Th Relay	Setting range	Selectivity limit (kA)														
iC60L MA	1.6	LRD6	1/1.6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	2.5	LRD7	1.6/2.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	4	LRD8	2.5/4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	6.3	LRD10	4/6.3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	10	LRD12	5.5/8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	10	LRD14	07/10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	12.5	LRD16	9/13	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	16	LRD21	12/18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	25	LRD22	17/25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	40	LRD32	23/32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	40	LRD3355	30/40		T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	1.6	LRD6	1/1.6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	2.5	LRD7	1.6/2.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	4	LRD8	2.5/4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	6.3	LRD10	4/6.3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	10	LRD12	5.5/8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	10	LRD14	07/10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	12.5	LRD16	9/13	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	16	LRD21	12/18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	25	LRD22	17/25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	40	LRD32	23/32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	40	LRD3355	30/40		T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	63	LRD3357	37/50			T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	63	LRD3359	48/65				T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	03	LRD3	0.25/0.40	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	04	LRD4	0.40/0.63	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	05	LRD5	0.63/1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	06	LRD6	1/1.6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	07	LRD7	1.6/2.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	08	LRD8	2.5/4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	10	LRD10	4/6.3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	14	LRD14	07/10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	16	LRD16	9/13	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	20	LRD21	12/18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	22	LRD22	17/25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	32	LRD32	23/32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L	25	LRD22	20/25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L	32	LRD32	23/32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L	40	LRD340	30/40		T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L	50	LRD350	37/50			T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L	65	LRD365	48/65				T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	02	LRD-07	1,6/2,5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	03	LRD-08	2,5/4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	07	LRD-12	5,5/8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	12	LRD-313	9/13	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	25	LRD-325	17/25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	50	LRD-350	37/50			T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	80	LRD-33 63	63/80					T			T	T	T	T	T	T	T	T
GV4 L/LE	115	LR9/F-5369	90/150									T	T			T	T	T
NSX100	MA2.5	LRD6	1/1.6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA2.5	LRD7	1.6/2.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA6.3	LRD8	2.5/4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA6.3	LRD10	4/6.3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA12.5	LRD12	5.5/8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA12.5	LRD14	9/13	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA12.5	LRD16	12/18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA25	LRD21	17/25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA25	LRD22	17/25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA50	LRD32	23/32	36	36	36	36	36	T	T	T	T	T	T	T	T	T	T
NSX100	MA50	LRD340	30/40		36	36	36	36	T	T	T	T	T	T	T	T	T	T
NSX100	MA50	LRD350	37/50			36	36	36	T	T	T	T	T	T	T	T	T	T
NSX100	MA100	LRD365	48/65				36	36		T	T	T	T	T	T	T	T	T
NSX100	MA100	LRD3363	63/80					36			T	T	T	T	T	T	T	T
NSX160	MA150	LR9D/F 5369	90/150										T				T	T
NSX250	MA220	LR9D/F 5371	132/220															T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] Valid for all "Distribution" Micrologic of Compact NSX : 2.2/3, 4.2/3 5.2/3, 6.2/3, 7.2/3. Valid for Generators (and Service connection (G and AB type) Micrologic of Compact NSX but curves shall be checked. Not Valid for “Motor” Micrologic of Compact NSX ("M" type).

Motor protection selectivity

Upstream: Compact NS630b to 1600 N/H
Downstream: iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, Compact NSX100 to 630

Ue ⩽ 440 V AC

Upstream	NS630b 800 1000 1250 1600 N/H	NS630b 800 1000 1250 1600 N/H	NS630b 800 1000 1250 1600 N/H
Trip unit	Micrologic 2.0	Micrologic 5.0 - 6.0 - 7.0 Inst...In	Micrologic 5.0 - 6.0 - 7.0 Inst OFF

Downstream	Rating	630			800	1000	1250	1600	630			800	1000	1250	1600	630			800	1000	1250	1600
	Setting Ir	250	400	630	800	1000	1250	1600	250	400	630	800	1000	1250	1600	250	400	630	800	1000	1250	1600
Selectivity limit (kA)																						
iC60 L MA1.6…MA40 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5...MA63 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUCx6..12		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUCx6..32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01..ME32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 P01...P32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L03..L32 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13...P65		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L25..L65 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE 02-115 +LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L MA 2.5...MA6.3 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5...MA100 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MA150 + LR9D/F	150		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	220			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX400 F/N/H/S/L/R Mic. 1.3M +LR9F	320					T	T	T					T	T	T					T	T	T
NSX630 F/N Mic. 1.3M +LR9F	500							T							T							T
NSX630 H/S/L/R Mic. 1.3M +LR9F	500							65							65							65
NSX100 F/N/H/S/L/R Mic. 2.2M 6.2M	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100 (80)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L Mic. 2.2M 6.2M	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	150		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX250 F/N/H/S/L/R Mic. 2.2M 6.2M	⩽ 150		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	220			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
NSX400 F/N/H/S/L/R Mic. 2.3M 6.3M	320					T	T	T					T	T	T					T	T	T
NSX630 F/N Mic. 2.3M 6.3M	500							T							T							T
NSX630H/S/L/R Mic. 2.3M 6.3M	500							65							65							65

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: Compact NS630b to 1000 L
Downstream: iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, Compact NSX100 to 630

Ue ⩽ 440 V AC

Upstream		NS630b 800 1000 L														
Trip Unit		Micrologic 2.0					Micrologic 5.0 - 6.0 - 7.0 Inst 15 In					Micrologic 5.0 - 6.0 - 7.0 Inst OFF				
Downstream	Rating	630			800	1000	630			800	1000	630			800	1000
	Setting Ir	250	400	630	800	1000	250	400	630	800	1000	250	400	630	800	1000
Selectivity limit (kA)																
iC60 L MA1.6 … MA40 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5 .. MA63 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUCx6..12		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUCx6..32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01..ME32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 P01 .. P32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L03..L32 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13 .. P65		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L25..L65 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE 02-115 +LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L MA 2.5 .. MA6.3 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5 .. MA100 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F MA150 + LR9D/F	150		T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160N/H/S/L MA150 + LR9D/F	150		36	36	T	T		36	36	T	T		36	36	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	220			20	T	T	20	20	20	T	T	20	20	20	T	T
NSX400F/N/H/S/L/R Micrologic 1.3M +LR9F	320					15										15
NSX630 F/N/H/S/L/R Micrologic 1.3M +LR9F	500															
NSX100 FN/H/S/L/R Micrologic 2.2M 6.2M	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100 (80)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L Micrologic 2.2M 6.2M	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	150		T	T	T	T		T	T	T	T		T	T	T	T
NSX250 F/N/H/S/L/R Micrologic 2.2M 6.2M	⩽ 150		20	20	T	T		20	20	T	T		20	20	T	T
	220			20	T	T			20	T	T			20	T	T
NSX400F/N/H/S/L/R Micrologic 2.3M 6.3M	320				15	15				15	15				15	15
NSX630F/N/H/S/L/R Micrologic 2.3M 6.3M	500					10					10					10

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: Compact NS1600b - 3200 N
Downstream: iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, Compact NSX100 to 630

Ue ⩽ 440 V AC

Upstream		NS1600 2000 2500 3200 N											
Trip Unit		Micrologic 2.0				Micrologic 5.0 - 6.0 - 7.0 Inst 15In				Micrologic 5.0 - 6.0 - 7.0 Inst OFF			
Downstream	Rating	1600	2000	2500	3200	1600	2000	2500	3200	1600	2000	2500	3200
Selectivity limit (kA)													
iC60 L MA1.6 … MA40 + LRD		T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5 .. MA63 + LRD		T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUCx6..12		T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUCx6..32		T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01..ME32		T	T	T	T	T	T	T	T	T	T	T	T
GV2 P01 .. P32		T	T	T	T	T	T	T	T	T	T	T	T
GV2 L03..L32 + LRD		T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13 .. P65		T	T	T	T	T	T	T	T	T	T	T	T
GV3 L25..L65 + LRD		T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115		T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE 02-115 +LRD		T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L MA 2.5 .. MA6.3 + LRD		T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5 .. MA100 + LRD		T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MA150 + LR9D/F	150	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	220	T	T	T	T	T	T	T	T	T	T	T	T
NSX400F/N/H/S/L/R Micrologic 1.3M +LR9F	320	T	T	T	T	T	T	T	T	T	T	T	T
NSX630 F/N/H/S/L/R Micrologic 1.3M +LR9F	500	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R Micrologic 2.2M 6.2M	25	T	T	T	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T	T	T	T
	100 (80)	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L Micrologic 2.2M 6.2M	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T
	150	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R Micrologic 2.2M 6.2M	⩽ 150	T	T	T	T	T	T	T	T	T	T	T	T
	220	T	T	T	T	T	T	T	T	T	T	T	T
NSX400 F/N/H/S/L/R Micrologic 2.3M 6.3M	320	T	T	T	T	T	T	T	T	T	T	T	T
NSX630 F/N/H/S/L/R Micrologic 2.3M 6.3M	320	T	T	T	T	T	T	T	T	T	T	T	T
	500	T	T	T	T	T	T	T	T	T	T	T	T

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: Masterpact MTZ1 06-16 H1/H2/H3
Downstream: iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, Compact NSX100 to 630

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ1 06/08/10/12/16 H1/H2/H3		
Trip Unit	Micrologic 2.0X	Micrologic 5.0X - 6.0X - 7.0X Inst 15 In	Micrologic 5.0X - 6.0X - 7.0X Inst OFF

Downstream	Rating	630			800	1000	1250	1600	630			800	1000	1250	1600	630			800	1000	1250	1600
	Setting Ir	250	400	630	800	1000	1250	1600	250	400	630	800	1000	1250	1600	250	400	630	800	1000	1250	1600
Selectivity limit (kA)																						
iC60 L MA1.6…MA40 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5...MA63 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUCx6...12		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUCx6...32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01...ME32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 P01...P32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L03...L32 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13...P65		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L25...L65 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE 02-115 +LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L MA 2.5...MA6.3 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5...MA100 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MA150 + LR9D/F	150		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	220			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
NSX400F/N/H/S/L/R Micrologic 1.3M +LR9F	320					T	T	T					T	T	T					T	T	T
NSX630 F/N/H/S/L/R Micrologic 1.3M +LR9F	500																					T
NSX100 FN/H/S/L/R Micrologic 2.2M 6.2M	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100 (80)		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX160 F/N/H/S/L Micrologic 2.2M 6.2M	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	150		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX250 F/N/H/S/L/R Micrologic 2.2M 6.2M	⩽ 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	220		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX400 F/N/H/S/L/R Micrologic 2.3M 6.3M	320						T	T						T	T						T	T
NSX630 F/N/H/S/L/R Micrologic 2.3M 6.3M	400						T	T						T	T						T	T
	500							T							T							T

T	Total selectivity, up to the breaking capacity of the downstream circuit breaker.
4	Selectivity limit = 4 kA.
	No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: Masterpact MTZ1 06-10 L1
Downstream: iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, Compact NSX100 to 630

Ue ⩽ 440 V AC

Upstream		Masterpact MTZ1 06/08/10 L1														
Trip Unit		Micrologic 2.0X					Micrologic 5.0X - 6.0X - 7.0X Inst 15 In					Micrologic 5.0X - 6.0X - 7.0X Inst OFF				
Downstream	Rating	630			800	1000	630			800	1000	630			800	1000
	Setting Ir	250	400	630	800	1000	250	400	630	800	1000	250	400	630	800	1000
Selectivity limit (kA)																
iC60 L MA1.6…MA40 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5...MA63 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUCx6...12		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUCx6...32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01...ME32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 P01...P32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L03...L32 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13...P65		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L25...L65 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE 02-115 +LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L MA 2.5...MA6.3 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5...MA100 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F MA150 + LR9D/F	150		T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 N/H/S/L MA150 + LR9D/F	150		36	36	T	T		36	36	T	T		36	36	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	220			20	T	T			20	T	T			20	T	T
NSX400 F/N/H/S/L/R Mic. 1.3M + LR9F	320					15					15					15
NSX630 F/N/H/S/L/R Mic. 1.3M +LR9F	500															
NSX100 F/N/H/S/L/R Mic. 2.2M 6.2M	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100 (80)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F Mic. 2.2M 6.2M	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	150		T	T	T	T		T	T	T	T		T	T	T	T
NSX160 N/H/S/L Mic. 2.2M 6.2M	⩽ 100	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
	150		36	36	36	36		36	36	36	36		36	36	36	36
NSX250 F/N/H/S/L/R Mic. 2.2M 6.2M	⩽ 150		20	20	T	T		20	20	T	T		20	20	T	T
	220			20	T	T			20	T	T			20	T	T
NSX400 F/N/H/S/L/R Mic. 2.3M 6.3M	320				15	15				15	15				15	15
NSX630 F/N/H/S/L/R Mic. 2.3M 6.3M	500					10					10					10

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: Masterpact MTZ2 08/10/12/16/20 N1/H1/H2/L1
Downstream: iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, Compact NSX100 to 630

Ue ⩽ 440 V AC

Upstream	Masterpact MTZ2 08/10/12/16/20 N1/H1/H2/L1																					
Trip Unit	Micrologic 2.0X							Micrologic 5.0X - 6.0X - 7.0X Inst 15 In								Micrologic 5.0X - 6.0X - 7.0X Inst OFF							
Downstream	Rating	800			1000	1250	1600	2000	800			1000	1250	1600	2000	800			1000	1250	1600	2000
	Setting Ir	320	630	800	1000	1250	1600	2000	320	630	800	1000	1250	1600	2000	320	630	800	1000	1250	1600	2000
Selectivity limit (kA)																						
iC60 L MA1.6…MA40 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5...MA63 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUCx6...12		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUCx6...32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01...ME32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 P01...P32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L03...L32 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13...P65		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L25...L65 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE 02-115 +LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L MA 2.5 .. MA6.3 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5 .. MA100 + LRD		T	T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX160 F/N/H/S/L MA150 + LR9D/F	150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	220		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX400F/N/H/S/L/R Micrologic 1.3M +LR9F	320				T	T	T	T				T	T	T	T				T	T	T	T
NSX630 F/N/H/S/L/R Micrologic 1.3M +LR9F	500						T	T						T	T						T	T
NSX100 FN/H/S/L/R Micrologic 2.2M 6.2M	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100 (80)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L Micrologic 2.2M 6.2M	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	150		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX250 F/N/H/S/L/R Micrologic 2.2M 6.2M	⩽ 150		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	220		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX400F/N/H/S/L/R Micrologic 2.3 6.3M	320				T	T	T	T				T	T	T	T				T	T	T	T
NSX630F/N/H/S/L/R Micrologic 2.3 6.3M	500						T	T						T	T						T	T

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: Masterpact MTZ2 25/32/40 H1/H2, MTZ3 40/50/63 H1
Downstream: iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, Compact NSX100 to 630

Ue ⩽ 440 V AC

Upstream		MTZ2 25/32/40 H1/H2			MTZ3 40/50/63 H1			MTZ2 25/32/40 H1/H2			MTZ3 40/50/63 H1			MTZ2 25/32/40 H1/H2			MTZ3 40/50/63 H1		
Trip Unit		Micrologic 2.0X						Micrologic 5.0X - 6.0X - 7.0X Inst 15 In						Micrologic 5.0X - 6.0X - 7.0X Inst OFF					
Downstream	Rating	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300
Selectivity limit (kA)																			
iC60 L MA1.6…MA40 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5...MA63 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUCx6...12		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUCx6...32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01...ME32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 P01...P32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L03...L32 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13...P65		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L25...L65 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE 02-115 +LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L MA 2.5 .. MA6.3 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5 .. MA100+LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MA150 + LR9D/F	150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	220	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX400 F/N/H/S/L/R Micrologic 1.3M+LR9F	320	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX630 F/N/H/S/L/R Micrologic 1.3M+LR9F	500	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 FN/H/S/L/R Micrologic 2.2M 6.2M	25/50/100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L Micrologic 2.2M 6.2M	150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R Micrologic 2.2M 6.2M	⩽ 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	220	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX400 F/N/H/S/L/R Micrologic 2.3 6.3M	320	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX630 F/N/H/S/L/R Micrologic 2.3 6.3M	500	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: Masterpact MTZ2 20/25/32/40 H3, MTZ3 40/50/63 H2
Downstream: iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4, Compact NSX100 to 630

Ue ⩽ 440 V AC

Upstream	MTZ2 20/25/32/40				MTZ3 40/50/63			MTZ2 20/25/32/40				MTZ3 40/50/63			MTZ2 20/25/32/40				MTZ3 40/50/63		
	H3				H2			H3				H2			H3				H2		
Trip Unit	Micrologic 2.0X							Micrologic 5.0X - 6.0X - 7.0X Inst 15 In							Micrologic 5.0X - 6.0X - 7.0X Inst OFF						
Downstream	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300
Selectivity limit (kA)																					
iC60 L MA1.6…MA40 + LRD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5...MA63 + LRD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUCx6...12	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUCx6...32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01...ME32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 P01...P32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L03...L32 + LRD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13...P65	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L25...L65 + LRD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE 02-115 +LRD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L MA 2.5...MA6.3 + LRD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5...MA100 + LRD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MA150 + LR9D/F	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX400 F/N/H/S/L/R Micrologic 1.3M + LR9F	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX630 F/N/H/S/L/R Micrologic 1.3M + LR9F	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 FN/H/S/L/R Micrologic 2.2M 6.2M	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L Micrologic 2.2M 6.2M	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R Micrologic 2.2M 6.2M	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX400 F/N/H/S/L/R Micrologic 2.3 6.3M 320	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX630 F/N/H/S/L/R Micrologic 2.3 6.3M 500	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection cascading

Upstream: NG125, Compact NSXm, NSX100, NSX160, NSX250, NSX400, NSX630
Downstream: iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4

Ue ⩽ 380/415V AC
Ph/N 220/240V AC

Upstream CB			NG125			NSXm					NSX100					
			N	H	L	E	B	F	N	H	B	F	N	H	S	L
Icu (kA)			25	36	50	16	25	36	50	70	25	36	50	70	100	150
Downstream			**Reinforced breaking capacity (kA)**													
	Rating (A)	Icu (kA)														
iC60L MA	1,6-16	20	25	36	50		25	36	36	36	25	36	40	40	40	40
	25-60	15	25	36	36	16	25	30	30	30	25	30	30	30	30	30
NG125L MA	1,6-80	50										70		70	100	150
GV2 ME	01-14	100														
	16-32	15									25	36	40	50	50	50
GV2 P	01-16	100														
	20-32	50								70				70	100	150
GV2 L	01-16	100														
	20-32	50								70				70	100	150
GV3 P	40-65	50								70				70	100	150
GV3 L	40-65	50								70				70	100	150
TeSys U LUB12	0,15-12	50								70				70	100	150
TeSys U LUB32	0,15-32	50								70				70	100	150
GV4L& LE B	2-115A	25						36	36	50		36	36	50	50	50
GV4L& LE N	2-115A	50								70				70	100	100
GV4L& LE S	2-115A	100														150
GV4P,PE,PEM B	2-115A	25						36	36	50		36	36	50	50	50
GV4P,PE,PEM N	2-115A	50								70				70	100	100
GV4P,PE,PEM S	2-115A	100														150

Upstream CB			NSX160						NSX250					
			B	F	N	H	S	L	B	F	N	H	S	L
Icu (kA)			25	36	50	70	100	150	25	36	50	70	100	150
Downstream			**Reinforced breaking capacity (kA)**											
	Rating (A)	Icu (kA)												
iC60L MA	1,6-16	20	25	36	40	40	40	40	25	30	30	30	30	30
	25-60	15	25	30	30	30	30	30	25	25	25	25	25	25
NG125L MA	1,6-80	50				70	100	150				70	100	150
GV2 ME	01-14	100												
	16-32	15	25	36	40	50	50	50	25	36	40	50	50	50
GV2 P	01-16	100												
	20-32	50				70	100	150				70	100	150
GV2 L	01-16	100												
	20-32	50				70	100	150				70	100	150
GV3 P	40-65	50				70	100	150				70	100	150
GV3 L	40-65	50				70	100	150				70	100	150
TeSys U LUB12	0,15-12	50				70	100	150				70	100	150
TeSys U LUB32	0,15-32	50				70	100	150				70	100	150
GV4L& LE B	2-115A	25		36	36	50	50	50		36	36	50	50	50
GV4L& LE N	2-115A	50				70	100	100				70	100	100
GV4L& LE S	2-115A	100						150						150
GV4P,PE,PEM B	2-115A	25		36	36	50	50	50		36	36	50	50	50
GV4P,PE,PEM N	2-115A	50				70	100	100				70	100	100
GV4P,PE,PEM S	2-115A	100						150						150

Upstream CB			NSX400					NSX630				
			F	N	H	S	L	F	N	H	S	L
Icu (kA)			25	36	50	70	100	150	25	36	100	150
Downstream			**Reinforced breaking capacity (kA)**									
	Rating (A)	Icu (kA)										
GV4L& LE B	2-115A	25	36	36	50	50	50	36	36	50	50	50
GV4L& LE N	2-115A	50			70	100	100			70	100	100
GV4L& LE S	2-115A	100					150					150
GV4P,PE,PEM B	2-115A	25	36	36	50	50	50	36	36	50	50	50
GV4P,PE,PEM N	2-115A	50			70	100	100			70	100	100
GV4P,PE,PEM S	2-115A	100					150					150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.
For Compact NSX with motor trip unit donwstream: use Electrical distribution tables.

Motor protection cascading

Upstream: NG125, Compact NSXm, NSX100, NSX160, NSX250, NSX400, NSX630
Downstream: GV4

Ue ⩽ 440V AC

Upstream CB			NSXm					NSX100					
			E	B	F	N	H	B	F	N	H	S	L
Icu (kA)			10	20	35	50	65	20	35	50	65	90	130
Downstream			Reinforced breaking capacity (kA)										
	Rating (A)	Icu (kA)											
GV4L, LE B	2-115	20			35	35	50		35	35	50	50	50
GV4L, LE N	2-115	50					65				65	90	100
GV4L, LE S	2-115	70										90	130
GV4P, PE, PEM B	2-115	20			35	35	50		35	35	50	50	50
GV4P, PE, PEM N	2-115	50					65				65	90	100
GV4P, PE, PEM S	2-115	70										90	130

Upstream CB			NSX160						NSX250					
			B	F	N	H	S	L	B	F	N	H	S	L
Icu (kA)			20	35	50	65	90	130	20	35	50	65	90	130
Downstream			Reinforced breaking capacity (kA)											
	Rating (A)	Icu (kA)												
GV4L, LE B	2-115A	20		35	35	50	50	50		35	35	50	50	50
GV4L, LE N	2-115A	50				65	90	100				65	90	100
GV4L, LE S	2-115A	70					90	130					90	130
GV4P, PE, PEM B	2-115A	20		35	35	50	50	50		35	35	50	50	50
GV4P, PE, PEM N	2-115A	50				65	90	100				65	90	100
GV4P, PE, PEM S	2-115A	70					90	130					90	130

Upstream CB			NSX400					NSX630				
			F	N	H	S	L	F	N	H	S	L
Icu (kA)			35	50	65	90	130	35	50	65	90	130
Downstream			Reinforced breaking capacity (kA)									
	Rating (A)	Icu (kA)										
GV4L, LE B	2-115A	20	35	35	50	50	50	35	35	50	50	50
GV4L, LE N	2-115A	50			65	90	100			65	90	100
GV4L, LE S	2-115A	70				90	130				90	130
GV4P, PE, PEM B	2-115A	20	35	35	50	50	50	35	35	50	50	50
GV4P, PE, PEM N	2-115A	50			65	90	100			65	90	100
GV4P, PE, PEM S	2-115A	70				90	130				90	130

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection cascading

Upstream: NG125, Compact NSXm, NSX100, NSX160, NSX250, NSX400, NSX630
Downstream: iC60L MA, NG125L MA, TeSys U, GV2, GV3, GV4

Ue ⩽ 220-240V AC
Ph/N 110-130V AC

Upstream CB	NG125			NSXm					NSX100					
	N	H	L	E	B	F	N	H	B	F	N	H	S	L
Icu (kA)	50	70	100	25	50	85	90	100	40	85	90	100	120	150

Downstream			Reinforced breaking capacity (kA)													
	Rating (A)	Icu (kA)														
iC60L MA	1,6-16	40	50	70	100							65	80	80	80	80
	25-60	30	50	70	70						40	80	80	80	80	80
NG125L MA	1,6-80	100													120	150
GV2 ME	01-14	100														
	16-32	50										85	90	100	100	100
GV2 P	01-16	100														
	20-32	100														
GV2 L	01-16	100														
	20-32	50						85	85	100		85	90	100	100	100
GV3 P	40-65	100														
GV3 L	40-65	100														
TeSys U LUB12	0,15-12	50						85	85	100					120	150
TeSys U LUB32	0,15-32	50						85	85	100					120	150
GV4L, LE B	2-115A	50						85	85	100		85	85	100	100	100
GV4L, LE N	2-115A	100													120	150
GV4L, LE S	2-115A	120														150
GV4P, PE, PEM B	2-115A	50						85	85	100		85	85	100	100	100
GV4P, PE, PEM N	2-115A	100													120	150
GV4P, PE, PEM S	2-115A	120														150

Upstream CB	NSX160						NSX250					
	B	F	N	H	S	L	B	F	N	H	S	L
Icu (kA)	40	85	90	100	120	150	40	85	90	100	120	150

Downstream			Reinforced breaking capacity (kA)											
	Rating (A)	Icu (kA)												
iC60L MA	1,6-16	40		65	80	80	80	80		65	80	80	80	80
	25-60	30	40	80	80	80	80	80	40	50	65	65	65	65
NG125L MA	1,6-80	100					120	150					120	150
GV2 ME	01-14	100												
	16-32	50		85	90	100	100	100		85	90	100	100	100
GV2 P	01-16	100												
	20-32	100												
GV2 L	01-16	100												
	20-32	50		85	90	100	100	100		85	90	100	100	100
GV3 P	40-65	100												
GV3 L	40-65	100												
TeSys U LUB12	0,15-12	50		85	85	100	100	100		85	85	100	100	100
TeSys U LUB32	0,15-32	50					120	150					120	150
GV4L, LE B	2-115A	50						150						150
GV4L, LE N	2-115A	100		85	85	100	100	100		85	85	100	100	100
GV4L, LE S	2-115A	120					120	150					120	150
GV4P, PE, PEM B	2-115A	50		85	85	100	100	100		85	85	100	100	100
GV4P, PE, PEM N	2-115A	100					120	150					120	150
GV4P, PE, PEM S	2-115A	120						150						150

Upstream CB	NSX400					NSX630				
	F	N	H	S	L	F	N	H	S	L
Icu (kA)	40	85	100	120	150	40	85	100	120	150

Downstream											
	Rating (A)	Icu (kA)									
GV4L, LE B	2-115A	50		85	100	100	100		85	100	100	100
GV4L, LE N	2-115A	100				120	150				120	150
GV4L, LE S	2-115A	120					150					150
GV4P, PE, PEM B	2-115A	50		85	100	100	100		85	100	100	100
GV4P, PE, PEM N	2-115A	100				120	150				120	150

Note: For Compact NSX with motor trip unit donwstream: use Electrical distribution tables.

Selectivity enhanced by cascading

Upstream: Compact NSX160, NSX250, NSX400, NSX630
Downstream: TeSys U, Integral 63

Ue: 380-415 V AC

Upstream			NSX160H	NSX160S	NSX160L	NSX250H	NSX250S	NSX250L
Breaking capacity			70 kA	100 kA	150 kA	70 kA	100 kA	150 kA
Trip unit			TM-D					

Downst.	Thermal relay	Rating (A)	80/100	125/160	80/100	125/160	80/100	125/160	160	200/250	160	200/250	160	200/250
TeSys U LUB12	LUC*X6	0.15/0.6		70/70		100/100		150/150	70/70	70/70	100/100	100/100	100/100	100/100
	LUC*1X	0.35/1.4		70/70		100/100		150/150	70/70	70/70	100/100	100/100	100/100	100/100
	LUC*05	1.25/5		70/70		100/100		150/150	70/70	70/70	100/100	100/100	100/100	100/100
	LUC*12	3/12		70/70		100/100		150/150	70/70	70/70	100/100	100/100	100/100	100/100
TeSys U LUB32	LUC*X6	0.15/0.6		5/70		5/100		5/150	5/70	70/70	5/100	100/100	5/100	100/100
	LUC*1X	0.35/1.4		5/70		5/100		5/150	5/70	70/70	5/100	100/100	5/100	100/100
	LUC*05	1.25/5		5/70		5/100		5/150	5/70	70/70	5/100	100/100	5/100	100/100
	LUC*12	3/12		5/70		5/100		5/150	5/70	70/70	5/100	100/100	5/100	100/100
	LUC*18	4.5/18		5/70		5/100		5/150	5/70	70/70	5/100	100/100	5/100	100/100
	LUC*32	8/32		5/70		5/100		5/150	5/70	70/70	5/100	100/100	5/100	100/100
Integral 63 LD1-LD030 LD4-LD130 LD4-LD030	LB1-LD03M16	10/13								70/70		100/100		150/150
	LB1-LD03M21	11/18								70/70		100/100		150/150
	LB1-LD03M22	18/25								70/70		100/100		150/150
	LB1-LD03M53	23/32								70/70		100/100		150/150
	LB1-LD03M55	28/40								70/70		100/100		150/150
	LB1-LD03M57	35/ 50								70/70		100/100		150/150
	LB1-LD03M61	45/63								70/70		100/100		150/150

Upstream			NSX160H	NSX160L	NSX160L	NSX250H	NSX250S	NSX250L	NSX400H	NSX400S	NSX400L
Breaking capacity			70 kA	100 kA	150 kA	70 kA	100 kA	150 kA	70 kA	100 kA	150 kA
Trip unit			Micrologic								

Downst.	Thermal relay	Rating (A)	160	160	160	250	250	250	400	400	400
TeSys U LUB12	LUC*X6	0.15/0.6	70/70	100/100	150/150	70/70	100/100	100/100			
	LUC*1X	0.35/1.4	70/70	100/100	150/150	70/70	100/100	100/100			
	LUC*05	1.25/5	70/70	100/100	150/150	70/70	100/100	100/100			
	LUC*12	3/12	70/70	100/100	150/150	70/70	100/100	100/100			
TeSys U LUB32	LUC*X6	0.15/0.6	5/70	5/100	5/150	70/70	100/100	100/100			
	LUC*1X	0.35/1.4	5/70	5/100	5/150	70/70	100/100	100/100			
	LUC*05	1.25/5	5/70	5/100	5/150	70/70	100/100	100/100			
	LUC*12	3/12	5/70	5/100	5/150	70/70	100/100	100/100			
	LUC*18	4.5/18	5/70	5/100	5/150	70/70	100/100	100/100			
	LUC*32	8/32	5/70	5/100	5/150	70/70	100/100	100/100			
Integral 63	LB1-LD03M16	10/13	70/70	100/100	150/150	70/70	100/100	150/150	70/70	100/100	150/150
LD1-LD030	LB1-LD03M21	11/18				70/70	100/100	150/150	70/70	100/100	150/150
LD4-LD130	LB1-LD03M22	18/25				70/70	100/100	150/150	70/70	100/100	150/150
LD4-LD030	LB1-LD03M53	23/32				70/70	100/100	150/150	70/70	100/100	150/150
	LB1-LD03M55	28/40				70/70	100/100	150/150	70/70	100/100	150/150
	LB1-LD03M57	35/50				70/70	100/100	150/150	70/70	100/100	150/150
	LB1-LD03M61	45/63				70/70	100/100	150/150	70/70	100/100	150/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity enhanced by cascading

Upstream: Compact NSX160
Downstream: GV2 ME

Ue: 380-415 V AC

Upstream	NSX160B	NSX160F
Breaking capacity	25 kA	36 kA
Trip unit	TM-D	

Downst.	Thermal relay	Rating (A)	16	25	40	63	80	100	125	160	16	25	32	40/50	63	80	100	125	160
GV2 ME01	Integrated	0.1/0.16	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36
GV2 ME02	Integrated	0.16/0.25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36
GV2 ME03	Integrated	0.25/0.40	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36
GV2 ME04	Integrated	0.40/0.63	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36
GV2 ME05	Integrated	0.63/1	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36
GV2 ME06	Integrated	1/1.6		25/25	25/25	25/25	25/25	25/25	25/25	25/25		36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36
GV2 ME07	Integrated	1.6/2.5			25/25	25/25	25/25	25/25	25/25	25/25			36/36	36/36	36/36	36/36	36/36	36/36	36/36
GV2 ME08	Integrated	2.5/4							25/25	25/25								36/36	36/36
GV2 ME10	Integrated	4/6.3							25/25	25/25								36/36	36/36
GV2 ME14	Integrated	6/10							25/25	25/25								36/36	36/36
GV2 ME16	Integrated	9/14							25/25	25/25								36/36	36/36
GV2 ME20	Integrated	13/18							25/25	25/25								36/36	36/36
GV2 ME21	Integrated	17/23							25/25	25/25								36/36	36/36
GV2 ME22	Integrated	20/25							25/25	25/25								36/36	36/36
GV2 ME32	Integrated	24/32							25/25	25/25								36/36	36/36

Upstream	NSX160N/H/S/L
Breaking capacity	50/70/100/150 kA
Trip unit	TM-D

Downst.	Thermal relay	Rating (A)	16	25	32	40	50	63	80	100	125	160
GV2 ME01	Integrated	0.1/0.16	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
GV2 ME02	Integrated	0.16/0.25	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
GV2 ME03	Integrated	0.25/0.40	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
GV2 ME04	Integrated	0.40/0.63	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
GV2 ME05	Integrated	0.63/1	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
GV2 ME06	Integrated	1/1.6		50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
GV2 ME07	Integrated	1.6/2.5			50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
GV2 ME08	Integrated	2.5/4									50/50	50/50
GV2 ME10	Integrated	4/6.3									50/50	50/50
GV2 ME14	Integrated	6/10									50/50	50/50
GV2 ME16	Integrated	9/14									50/50	50/50
GV2 ME20	Integrated	13/18									50/50	50/50
GV2 ME21	Integrated	17/23									50/50	50/50
GV2 ME22	Integrated	20/25									50/50	50/50
GV2 ME32	Integrated	24/32									50/50	50/50

Upstream	NSX160B	NSX160F	NSX160F
Breaking capacity	25 kA	36 kA	50/70/100/150 kA
Trip unit	Micrologic		

Downst.	Thermal relay	Rating (A)	160	160	160
GV2 ME01	Integrated	0.1/0.16	25/25	36/36	50/50
GV2 ME02	Integrated	0.16/0.25	25/25	36/36	50/50
GV2 ME03	Integrated	0.25/0.40	25/25	36/36	50/50
GV2 ME04	Integrated	0.40/0.63	25/25	36/36	50/50
GV2 ME05	Integrated	0.63/1	25/25	36/36	50/50
GV2 ME06	Integrated	1/1.6	25/25	36/36	50/50
GV2 ME07	Integrated	1.6/2.5	25/25	36/36	50/50
GV2 ME08	Integrated	2.5/4	25/25	36/36	50/50
GV2 ME10	Integrated	4/6.3	25/25	36/36	50/50
GV2 ME14	Integrated	6/10	25/25	36/36	50/50
GV2 ME16	Integrated	9/14	25/25	36/36	50/50
GV2 ME20	Integrated	13/18	25/25	36/36	50/50
GV2 ME21	Integrated	17/23	25/25	36/36	50/50
GV2 ME22	Integrated	20/25	25/25	36/36	50/50
GV2 ME32	Integrated	24/32	25/25	36/36	50/50

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity enhanced by cascading

Upstream: Compact NSX160
Downstream: GV2 P

Ue: 380-415 V AC

Upstream			NSX160H				NSX160S			
Breaking capacity			70 kA				100 kA			
Trip unit			TM-D							
Downst.	**Thermal relay**	**Rating (A)**	**80**	**100**	**125**	**160**	**80**	**100**	**125**	**160**
GV2 P01	**Integrated**	**0.1/0.16**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 P02	**Integrated**	**0.16/0.25**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 P03	**Integrated**	**0.25/0.40**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 P04	**Integrated**	**0.40/0.63**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 P05	**Integrated**	**0.63/1**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 P06	**Integrated**	**1/1.6**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 P07	**Integrated**	**1.6/2.5**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 P08	**Integrated**	**2.5/4**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 P10	**Integrated**	**4/6.3**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 P14	**Integrated**	**6/10**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 P16	**Integrated**	**9/ 14**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 P20	**Integrated**	**13/18**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 P21	**Integrated**	**17/23**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 P22	**Integrated**	**20/25**			70/70	70/70	100/100	100/100	100/100	100/100

Upstream			NSX160L				NSX160H	NSX160S	NSX160L
Breaking capacity			150 kA				70 kA	100 kA	150 kA
Trip unit			TM-D				Micrologic		
Downst.	**Thermal relay**	**Rating (A)**	**80**	**100**	**125**	**160**	**160**	**160**	**160**
GV2 P01	**Integrated**	**0.1/0.16**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 P02	**Integrated**	**0.16/0.25**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 P03	**Integrated**	**0.25/0.40**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 P04	**Integrated**	**0.40/0.63**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 P05	**Integrated**	**0.63/1**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 P06	**Integrated**	**1/1.6**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 P07	**Integrated**	**1.6/2.5**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 P08	**Integrated**	**2.5/4**			150/150	150/150	70/70	100/100	150/150
GV2 P10	**Integrated**	**4/6.3**			150/150	150/150	70/70	100/100	150/150
GV2 P14	**Integrated**	**6/10**			150/150	150/150	70/70	100/100	150/150
GV2 P16	**Integrated**	**9/14**			150/150	150/150	70/70	100/100	150/150
GV2 P20	**Integrated**	**13/18**			150/150	150/150	70/70	100/100	150/150
GV2 P21	**Integrated**	**17/23**			150/150	150/150	70/70	100/100	150/150
GV2 P22	**Integrated**	**20/25**			150/150	150/150	70/70	100/100	150/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity enhanced by cascading

Upstream: Compact NSX160
Downstream: GV2 L

Ue: 380-415 V AC

Upstream			NSX160H				NSX160S			
Breaking capacity			70 kA				100 kA			
Trip unit			TM-D							
Downst.	**Thermal relay**	**Rating (A)**	**80**	**100**	**125**	**160**	**80**	**100**	**125**	**160**
GV2 L03	**LR2 D13 03**	**0.25/0.40**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 L04	**LR2 D13 04**	**0.40/0.63**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 L05	**LR2 D13 05**	**0.63/1**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 L06	**LR2 D13 06**	**1/1.6**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 L07	**LR2 D13 07**	**1.6/2.5**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 L08	**LR2 D13 08**	**2.5/4**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 L10	**LR2 D13 10**	**4/6.3**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 L14	**LR2 D13 14**	**7/10**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 L16	**LR2 D13 16**	**9/13**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 L20	**LR2 D13 21**	**12/18**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 L22	**LR2 D13 22**	**17/25**			70/70	70/70	100/100	100/100	100/100	100/100

Upstream			NSX160L				NSX160H	NSX160S	NSX160L
Breaking capacity			150 kA				70 kA	100 kA	150 kA
Trip unit			TM-D				Micrologic		
Downst.	**Thermal relay**	**Rating (A)**	**80**	**100**	**125**	**160**	**160**	**160**	**160**
GV2 L03	**LR2 D13 03**	**0.25/0.40**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 L04	**LR2 D13 04**	**0.40/0.63**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 L05	**LR2 D13 05**	**0.63/1**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 L06	**LR2 D13 06**	**1/1.6**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 L07	**LR2 D13 07**	**1.6/2.5**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 L08	**LR2 D13 08**	**2.5/4**			150/150	150/150	70/70	100/100	150/150
GV2 L10	**LR2 D13 10**	**4/6.3**			150/150	150/150	70/70	100/100	150/150
GV2 L14	**LR2 D13 14**	**7/10**			150/150	150/150	70/70	100/100	150/150
GV2 L16	**LR2 D13 16**	**9/13**			150/150	150/150	70/70	100/100	150/150
GV2 L20	**LR2 D13 21**	**12/18**			150/150	150/150	70/70	100/100	150/150
GV2 L22	**LR2 D13 22**	**17/25**			150/150	150/150	70/70	100/100	150/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity enhanced by cascading

Upstream: Compact NSX160, NSX250, NSX400, NSX630
Downstream: TeSys U

Ue: 440 V AC

Upstream			NSX160H		NSX160S		NSX160L		NSX250H		NSX250S		NSX250L	
Breaking capacity			65 kA		90 kA		130 kA		65 kA		90 kA		130 kA	
Trip unit			TM-D											
Downst.	**Thermal relay**	**Rating (A)**	**80/100**	**125/160**	**80/100**	**125/160**	**80/100**	**125/160**	**160**	**200/250**	**160**	**200/250**	**160**	**200/250**
TeSys U LUB12	**LUC●X6**	**0.15/0.6**		65/65		90/90		130/130	65/65	65/65	90/90	90/90	100/100	100/100
	LUC●1X	**0.35/1.4**		65/65		90/90		130/130	65/65	65/65	90/90	90/90	100/100	100/100
	LUC●05	**1.25/5**		65/65		90/90		130/130	65/65	65/65	90/90	90/90	100/100	100/100
	LUC●12	**3/12**		65/65		90/90		130/130	65/65	65/65	90/90	90/90	100/100	100/100
TeSys U LUB32	**LUC●X6**	**0.15/0.6**		5/65		5/90		5/130	5/65	65/65	5/90	90/90	5/100	100/100
	LUC●1X	**0.35/1.4**		5/65		5/90		5/130	5/65	65/65	5/90	90/90	5/100	100/100
	LUC●05	**1.25/5**		5/65		5/90		5/130	5/65	65/65	5/90	90/90	5/100	100/100
	LUC●12	**3/12**		5/65		5/90		5/130	5/65	65/65	5/90	90/90	5/100	100/100
	LUC●18	**4.5/18**		5/65		5/90		5/130	5/65	65/65	5/90	90/90	5/100	100/100
	LUC●32	**8/32**		5/65		5/90		5/130	5/65	65/65	5/90	90/90	5/100	100/100

Upstream			NSX160H	NSX160S	NSX160L	NSX250H	NSX250S	NSX250L	NSX400H	NSX400L
Breaking capacity			65 kA	90 kA	130 kA	65 kA	90 kA	130 kA	65 kA	90 kA
Trip unit			Micrologic							
Downst.	**Thermal relay**	**Rating (A)**	**160**	**160**	**160**	**250**	**250**	**250**	**400**	**400**
TeSys U LUB12	**LUC●X6**	**0.15/0.6**	65/65	90/90	130/130	65/65	90/90	100/100		
	LUC●1X	**0.35/1.4**	65/65	90/90	130/130	65/65	90/90	100/100		
	LUC●05	**1.25/5**	65/65	90/90	130/130	65/65	90/90	100/100		
	LUC●12	**3/12**	65/65	90/90	130/130	65/65	90/90	100/100		
TeSys U LUB32	**LUC●X6**	**0.15/0.6**	5/65	5/90	5/130	65/65	90/90	100/100		
	LUC●1X	**0.35/1.4**	5/65	5/90	5/130	65/65	90/90	100/100		
	LUC●05	**1.25/5**	5/65	5/90	5/130	65/65	90/90	100/100		
	LUC●12	**3/12**	5/65	5/90	5/130	65/65	90/90	100/100		
	LUC●18	**4.5/18**	5/65	5/90	5/130	65/65	90/90	100/100		
	LUC●32	**8/32**	5/65	5/90	5/130	65/65	90/90	100/100		

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page 6, or check curves with Schneider Electric online “Electrical calculation tools”.

Protection of motor circuits

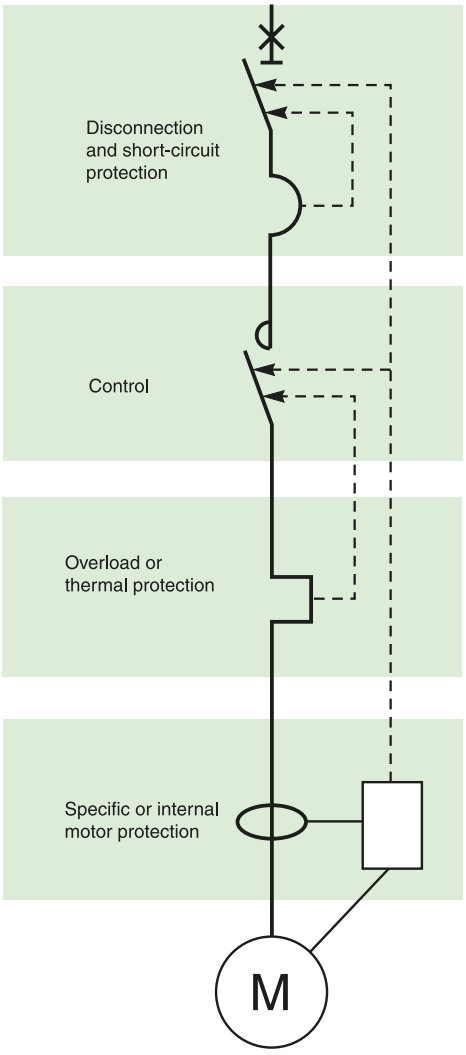
Circuit breaker/contactor coordination

A circuit supplying a motor may include one, two, three or four switchgear or controlgear devices fulfilling one or more functions.

When a number of devices are used, they must be coordinated to ensure optimum operation of the motor.

Protection of a motor circuit involves a number of parameters that depend on:
- the application (type of machine driven, operating safety, starting frequency, etc.)
- the level of service continuity imposed by the load or the application
- the applicable standards to ensure protection of life and property.

The necessary electrical functions are of very different natures:
- protection (motor-dedicated for overloads)
- control (generally with high endurance levels)
- isolation.



Protection functions

Disconnection functions:
- Isolate a motor circuit prior to maintenance operations.

Short-circuit protection:
Protect the starter and the cables against major overcurrents (> 10 In).

Control:
Start and stop the motor, and, if applicable:
- gradual acceleration
- speed control.

Overload protection:
Protect the starter and the cables against minor overcurrents (< 10 In).

Additional specific protection:
- limitative fault protection (while the motor is running)
- preventive fault protection (monitoring of motor insulation with motor off).

Overloads (I < 10 In).
An overload may be caused by:
- an electrical problem, for instance on the mains (loss of a phase, voltage outside tolerances, etc.)
- a mechanical problem, for instance excessive torque due to abnormally high demands by the process or motor damage (bearing vibrations, etc.)

A further consequence of these two origins is excessively long starting.

Impedant short-circuit (10 < I < 50 In)
Deterioration of motor-winding insulation is the primary cause.

Short-circuit (I > 50 In)
This type of fault is relatively rare. A possible cause may be a connection error during maintenance.

Overload protection
Thermal relays provide protection against this type of fault. They may be:
- integrated in the short-circuit protective device
- separate.

Short-circuit protection
This type of protection is provided by a circuit breaker.

Protection against insulation faults
This type of protection may be provided by:
- a residual current device (RCD)
- an insulation monitoring device (IMD).

Applicable standards

A circuit supplying a motor must comply with the general rules set out in IEC standard 60947-4-1 and in particular with those concerning contactors, motor starters and their protection as stipulated in IEC 60947-4-1, notably:

- coordination of the components of the motor circuit
- trip class for thermal relays
- contactor utilisation categories
- coordination of insulation.

Coordination of the components of the motor circuit

Two types of coordination

The standard defines tests at different current levels. The purpose of these tests is to place the switchgear and controlgear in extreme conditions. Depending on the state of the components following the tests, the standard defines two types of coordination:

- **type 1:**

Deterioration of the contactor and the relay is acceptable under two conditions:

- no danger to operating personnel
- no danger to any components other than the contactor and the relay

- **type 2:**

Only minor welding of the contactor or starter contacts is permissible and the contacts must be easily separated.

- following type-2 coordination tests, the switchgear and controlgear functions must be fully operational.

Which type of coordination is needed?

Selection of a type of coordination depends on the operating conditions encountered.

The goal is to achieve the best balance between the user's needs and the cost of the installation.

- **type 1:**
  - qualified maintenance service
  - low cost of switchgear and controlgear
  - continuity of service is not imperative or may be ensured by simply replacing the faulty motor drawer
- **type 2:**
  - continuity of service is imperative
  - limited maintenance service
  - specifications stipulating type 2.

The different test currents

"Ic", "r" and "Iq" test currents
To qualify for type-2 coordination, the standard requires three fault-current tests to check that the switchgear and controlgear operates correctly under overload and short-circuit conditions.

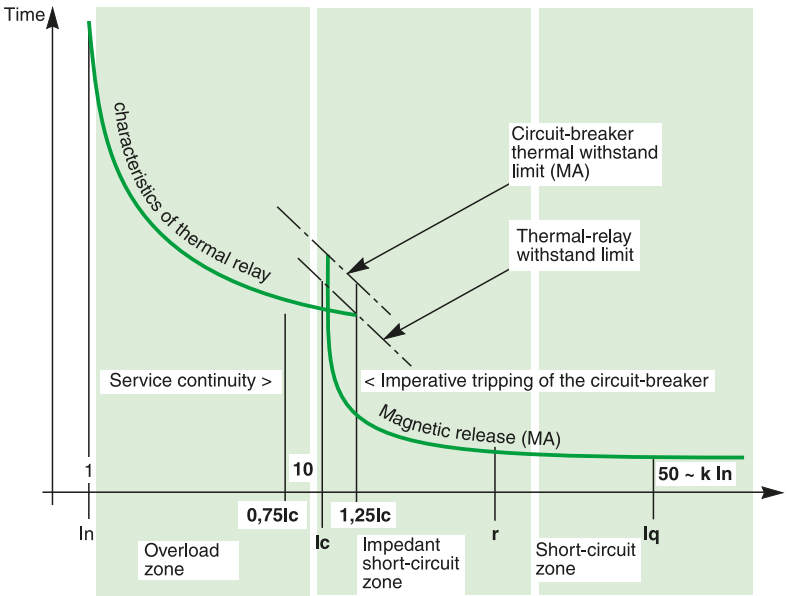
"Ic" current (overload I < 10 In)
The thermal relay provides protection against this type of fault, up to the Ic value (a function of Im or Isd) defined by the manufacturer.
IEC standard 60947-4-1 stipulates two tests that must be carried out to guarantee coordination between the thermal relay and the short-circuit protective device:
- at 0.75 Ic, only the thermal relay reacts
- at 1.25 Ic, the short-circuit protective device reacts.

Following the tests at 0.75 and 1.25 Ic, the trip characteristics of the thermal relay must be unchanged. Type-2 coordination thus enhances continuity of service. The contactor may be closed automatically following clearing of the faul.

"r" current
(Impedant short-circuit 10 < I < 50 In)
The primary cause of this type of fault is the deterioration of insulation. IEC standard 60947-4-1 defines an intermediate short-circuit current “r”. This test current is used to check that the protective device provides protection against impedant short-circuits.
There must be no modification in the original characteristics of the contactor and the thermal relay following the test.
The circuit breaker must trip in ⩽ 10 ms for a fault current ⩾ 15 In.

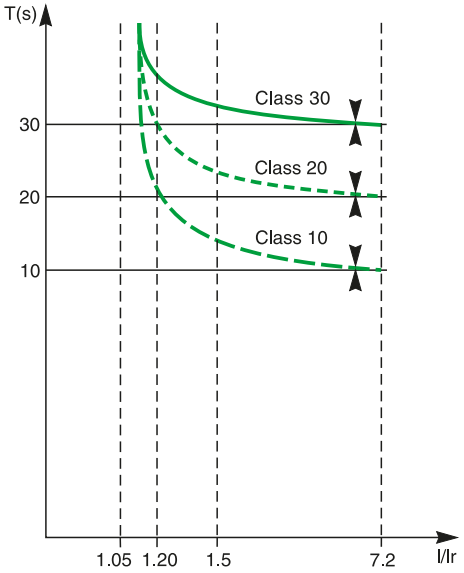
Operational current Ie (AC3) of the motor (in A)	"r" current (kA)
Ie ⩽ 16	1
16 < Ie ⩽ 63	3
63 < Ie ⩽ 125	5
125 < Ie ⩽ 315	10
315 < Ie < 630	18

“Iq” current
(short-circuit I > 50 In)
This type of fault is relatively rare. A possible cause may be a connection error during maintenance.
Short-circuit protection is provided by devices that open quickly.
IEC standard 60947-4-1 defines the “Iq” current as generally ⩾ 50 kA.
The “Iq” current is used to check the coordination of the switchgear and controlgear installed on a motor supply circuit.
Following this test under extreme conditions, all the coordinated switchgear and controlgear must remain operational.



Protection of motor circuits

Circuit breaker/contactor coordination



Trip class of a thermal relay.

Trip class of a thermal relay

The four trip class of a thermal relay are 10 A, 10, 20 and 30 (maximum tripping times at 7.2 Ir).
Classes 10 and 10 A are the most commonly used. Classes 20 and 30 are reserved for motors with difficult starting conditions.
The diagram and the table opposite can be used to select a thermal relay suited to the motor starting time.

Class	1.05 Ir	1.2 Ir	1.5 Ir	7.2 Ir
10 A	t > 2 h	t < 2 h	t < 2 min.	2 ≤ t ≤ 10 s
10	t > 2 h	t < 2 h	t < 4 min.	4 ≤ t ≤ 10 s
20	t > 2 h	t < 2 h	t < 8 min.	6 ≤ t ≤ 20 s
30	t > 2 h	t < 2 h	t < 12 min.	9 ≤ t ≤ 30 s

Protection of motor circuits

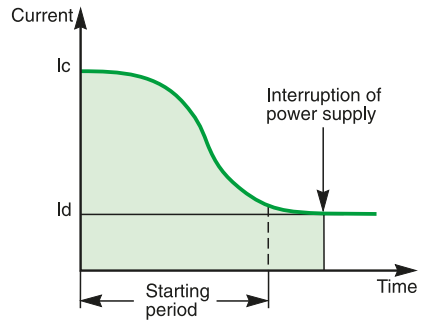
Circuit breaker/contactor coordination

The four utilisation categories of contactors (AC1 to AC4)

The four utilisation categories of contactors (AC1 to AC4)The utilisation category determines the operating frequency and endurance of a contactor. The category depends on the type of load. If the load is a motor; the category also depends on the service classification.

Main characteristics of the controlled electrical circuits and applications

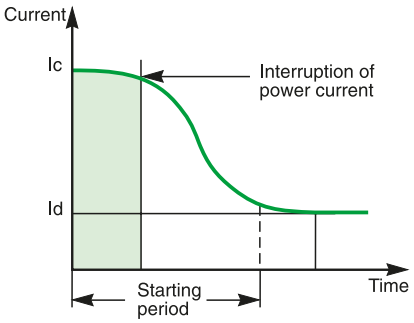
Category	Type of load	Contactor usage	Typical applications
AC1	No-inductive (cos φ 0.8)	Energisation	Heating, distribution
AC2	Slip-ring motors (cos φ 0.65)	Starting Switching off during running Regenerative braking Inching	Wire drawing machines
AC3	Squirrel-cage motors (cos φ 0.45 for Ie ≤ 100A) (cos φ 0.35 for Ie > 100A)	Starting Switching off during running	Compressors, lifts, mixing Pumps, escalators, fans, Conveyers, air-conditioning
AC4	Squirrel-cage motors (cos φ 0.45 for Ie ≤ 100A) (cos φ 0.35 for Ie > 100A)	Starting Switching off during running Regenerative braking	Printing machines, wire
		Plugging Inching	



AC3 utilisation category. The contactor interrupts the rated current of the motor.

AC3 utilisation category

This category covers asynchronous squirrel-cage motors that are switched off during running. This is the most common situation (85 % of all cases).
The control device establishes the starting current and interrupts the rated current at a voltage equal to approximately one-sixth of the rated value.
Current interruption is carried out with no difficulty.



AC4 utilisation category. The contactor must be capable of interrupting the starting current id.

AC4 utilisation category

This category covers asynchronous squirrel-cage or slip-ring motors capable of operating under regenerative-braking or inching (jogging) conditions.
The control device establishes the starting current and is capable of interrupting the starting current at a voltage that may be equal to that of the mains.
Such difficult conditions require oversizing of the control and protective devices with respect to category AC3.

Subtransient phenomena related to direct on-line starting of asynchronous motors

Subtransient phenomena occurring when starting squirrel-cage motors:
A squirrel-cage motor draws a high inrush current during starting. This current is related to the combined influence of two parameters:

- the high inductance of the copper stator winding
- the magnetisation of the iron core of the stator.

In motor: current drawn by the motor at full rated load (in A rms)

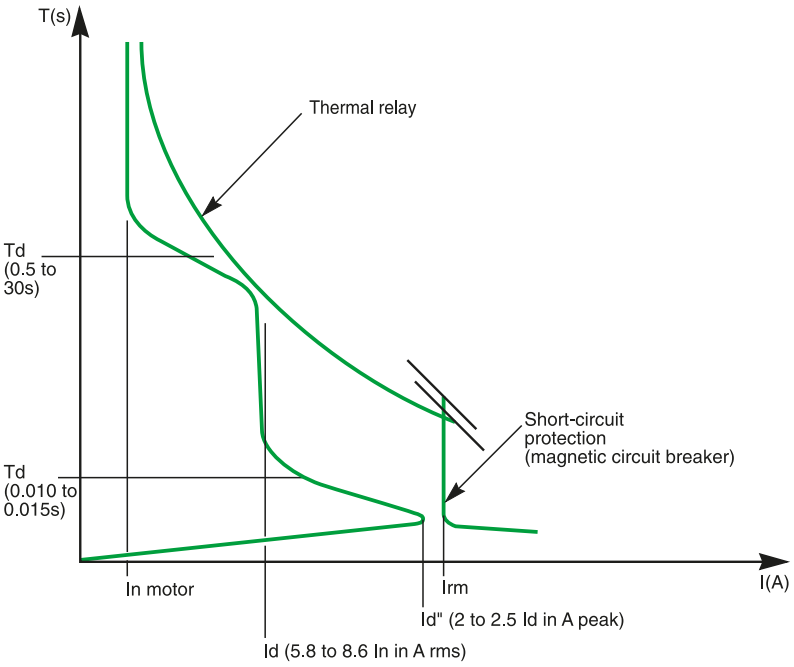
Id: current drawn by the motor during starting (in A ms)

Id'': subtransient current generated by the motor when it is energised. This very short subtransient phenomenon is expressed as k x Id x r 2 (in A peak).

td: motor starting time, from 0.5 to 30 seconds depending on the application.

td'': duration of the subtransient current, from 0.010 to 0.015 seconds when the motor is energised.

Irm: magnetic setting of the circuit breakers.



Typical upper and lower limits for these subtransient currents:
These values, not covered by standards, also depend on the type of motor technology used:

- ordinary motors Id'' = 2 Id to 2.1 Id (in A peak)
- high-efficiency motors Id'' = 2.2 Id to 2.5 Id (in A peak).
- variation of Id'' as a function of Id:

Type of motor	d (in A rms)	Id'' (in A peak)
Ordinary motor	5.8 to 8.6 In motor	Id'' = 2 Id = 11.5 In (A peak) to Id'' = 2.1 Id = 18 In (A peak)
High-efficiency motor	5.8 to 8.6 In motor	Id'' = 2.2 Id = 12.5 In (A peak) to Id'' = 2.5 Id = 21.5 In (A peak)

Example: Upon energisation, a high-efficiency motor with an Id of 7.5 In produces a subtransient current with a value between (depending on its characteritics):

- minimum = 16.5 In (in A peak)
- maximum = 18.8 In (in A peak).

Protection of motor circuits

Using the circuit breaker/contactor coordination tables

Subtransient currents and protection settings:
- as illustrated in the above table, subtransient currents can be very high.
- If they approach their upper limits, they can trip short-cicuit protection devices (nuisance tripping)
- circuit breakers are rated to provide optimum short-circuit protection for motor starters (type 2 coordination with thermal relay and contactor)
- combinations made up of circuit breakers and contactors and thermal relays are designed to allow starting of motors generating high subtransient currents (up to 19 In motor peak)
- the tripping of short-circuit protective devices when starting with a combination listed in the coordination tables means:
  - the limits of certain devices may be reached
  - the use of the starter under type 2 coordination conditions on the given motor may lead to premature wear of one of the components of the combination.

In event of such a problem, the ratings of the starter and the associated protective devices must be redesigned.

European regulation EC640 has been introduced in January 2015 to enforce usage of premium efficiency motor classified as IE3.

One consequence of the improvement of induction motor's efficiency may be an increase of starting current value.

TeSys and Compact ranges can handle IE3 motor higher inrush and starting current. However, due to the spread of starting current values of the motors on the market, it's recommended to check the value of subtransient starting current in Direct-On-Line application when Istart > 7,5 In.

Using the coordination tables for circuit breaker and contactors:

- **ordinary motor:**

The starter components can be selected directly from the coordination tables, whatever the values of the starting current (Id from 5.8 to 8.6 In) and the subtransient current

- **high-efficiency motors with Id ≤ 7.5 In:**

The starter components can be selected directly from the coordination tables, whatever the values of the starting current and the subtransient current

- **high-efficiency motors with Id > 7.5 In:**

When circuit breakers are used for motor currents in the neighbourhood of their rated current, they are set to provide minimum short-circuit protection at **19 In motor (A peak)**.
There are two possibilities:
- the subtransient starting current is known (indicated by the motor manufacturer) and is less than **19 In motor (A peak)**.

In this case, the starter components can be selected directly from the coordination tables, whatever the value of the starting current (for Id > 7.5 In).
Example: for a 110 kW 380/415 V 3-phase motor, the selected components are: NSX250-MA220/LC1-F225/LR9-F5371.
- the subtransient starting current is unknown or greater than 19 In motor (A peak).

In this case, the value used for the motor power in the coordination tables should be increased by 20 % to satisfy optimum starting and coordination conditions.
Example: for a 110 kW 380/415 V 3-phase motor, the selected components are those for a motor power of 110 + 20 % = 132 kW:
NSX400 Micrologic 4.3M/LC1-F265/LR9-F5371

Reversing starters and coordination

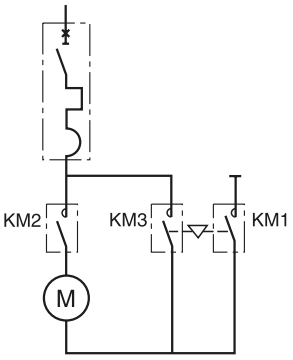
The starter components can be selected using the tables for direct-on-line starting. Replace contactors LC1 by LC2.

Star-delta starting and coordination

- the components should be sized according to the current flowing in the motor windings
- the mounting locations and connections of the various components of star-delta starters should be selected according to the type of coordination required and the protective devices implemented.

Protection of motor circuits

Using the circuit breaker/contactor coordination tables



Solution with thermal-magnetic motor circuit breaker.

Star-delta starting and type 1 coordination

Contactors KM2 and KM3 are sized for the line current divided by e KM1 can be sized for the line current divided by 3, however, for the sake of homogeneity, it is often identical to contactors KM2 and KM3.

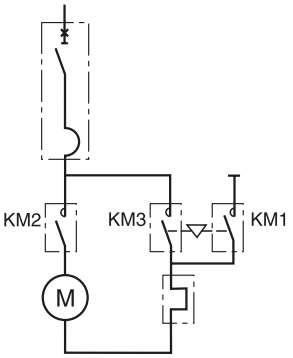
The starter components are selected from the special star-delta type 1 coordination tables.

Example: consider the following case:

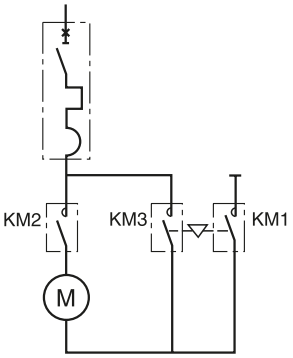
- 45 kW motor supplied at 380 V
- star-delta starting
- separate thermal relay
- short-circuit current of 20 kA at the starter
- type 1 coordination.

The starter components are selected using the table on page 557E4505.indd/8:

- circuit breaker: NSX100N-MA 100
- contactor: LC3-D50
- thermal relay: LR2-D3357.



Solution with magnetic motor circuit breaker.



Solution with thermal-magnetic motor circuit breaker.

Star-delta starting and type 2 coordination

Contactors KM1, KM2 and KM3 are sized for the line current.

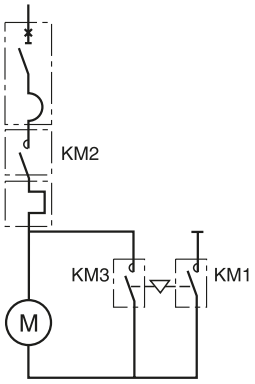
The starter components are selected from the direct-on-line type 2 coordination tables.

Example: consider the following case:

- 55 kW motor supplied at 415 V
- star-delta starting
- thermal protection built into the circuit breaker providing short-circuit protection
- short-circuit current of 45 kA at the starter
- type 2 coordination.

The starter components are selected using the table on page 189:

- circuit breaker: NSX160H with Micrologic 6.2
- starter: LC1-F115 to be replaced by LC3-F115.

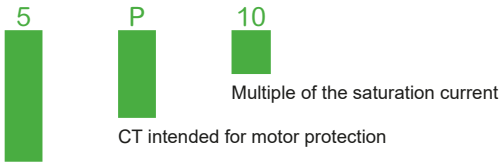


Solution with magnetic motor circuit breaker.

Protection of motor circuits

Circuit breaker/contactor coordination

The characteristics of the current transformers are the following (as defined by IEC 44-1/44-3):



The current transformer ratings must be 5 VA per phase.

Starting class and thermal relays

The following tables correspond to “normal” motor starting times. The associated thermal relays are either class 10 or 10 A (tripping time < 10 s).

- ■ for motors with long starting times, the class 10 or 10 A thermal relays must be replaced with class 20 thermal relays as indicated in the correspondence table opposite (for type 1 and type 2 coordination)
- ■ long starting times requiring a class 30 relay:
- □ apply a derating coefficient (K = 0.8) to the circuit breaker and the contactor
- ■ coordination tables with the multifunction protective relay LT6-P
- □ three types of multifunction relays (see the corresponding catalogue for detailed characteristics) are available. They may be connected:
  - directly to the motor power supply line
  - to the secondary winding of the current transformer.

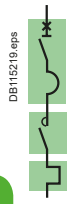
Relay		Rating Direct	Connecting Using current trans.
LTM R08	0.4 to 8 A	■	■
LTM R27	1.35 to 27 A	■	
LTM R100	5 to 100 A	■	

Correspondence table class 10 A and class 20 relay

Contactor series D	Thermal relay Class10/10 A	Class 20	Setting range
LC1-D09-D38	LRD 05	LRD 05L	0.63…1
	LRD 06	LRD 06L	1…1.6
	LRD 07	LRD 07L	1.6…2.5
	LRD 08	LRD 08L	2.5…4
	LRD 10	LRD 10L	4…6
	LRD 12	LRD 12L	5.5…8
	LRD 14	LRD 14L	7…10
LC1-D12-D38	LRD 16	LRD 16L	9…13
LC1-D18-D38	LRD 21	LRD 21L	12…18
LC1-D25-D38	LRD 22	LRD 22L	17…25
	LRD 32	LRD 32L	23…32
LC1-D32-D38	LRD 35		30…38
D40A - D65A	LRD 313	LRD 313L	9 ... 13
	LRD 318	LRD 318L	12 ... 18
	LRD 325	LRD 325L	17 ... 25
	LRD 332	LRD 332L	23 ... 32
	LRD 340	LRD 340L	30 ... 40
	LRD 350	LRD 350L	37 ... 50
	LRD 365	LRD 365L	38 ... 65
D80 - D95	LRD 3322	LR2 D3522	17 ... 25
	LRD 3353	LR2 D3553	23 ... 32
	LRD 3355	LR2 D3555	30 ... 40
	LRD 3357	LR2 D3557	37 ... 50
	LRD 3359	LR2 D3559	48 ... 65
	LRD 3361	LR2 D3561	55 ... 70
	LRD 3363	LR2 D3563	63 ... 80
	LRD 3365		80 ... 104
D115-D150	LR9 D5367	LR9D 5567	60 ... 100
	LR9 D5369	LR9D 5569	90 ... 150
F115-F185	LR9 F53 57	LR9 F55 57	30…50
	LR9 F53 63	LR9 F55 63	48…80
	LR9 F53 67	LR9 F55 67	60…100
	LR9 F53 69	LR9 F55 69	90…150
F185-F400	LR9 F53 71	LR9 F55 71	132…220
F225-F500	LR9 F73 75	LR9 F75 75	200…330
	LR9 F73 79	LR9 F75 79	300…500
F400-F800	LR9 F73 81	LR9 F75 81	380…630

[1] Independant mounting with LAD 7B105.

Type 2 coordination (IEC 60947-4-1) 220/240 V



Circuit breakers, contactors and thermal relays

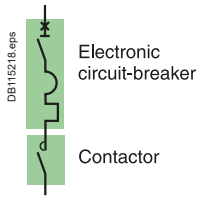
Performance "Iq" (kA): U = 220/240V						
Circuit breaker	**B**	**F**	**N**	**H**	**S**	**L**
GV4L & LE 02 - 12	-	-	100	-	120 [4]	-
GV4L & LE 25 - 115	50	-	100	-	120 [4]	-
NSX100/160/250-MA	-	85	90	100	120	150
NSX400/630-Micrologic 1.3M	-	85	90	100	120	150
NS800L/NS1000L µicrologic 5.0	-	-	-	-	-	150

Starting [1]**:** normal LRD class 10 A, LR9 class 10.

Motors	Guide values of operational current in amps at :				Circuit breakers			Contactors [2]	Thermal o/l relays	
P (kW)	**220V (A)**	**230V (A)**	**240V (A)**	**Ie max (A)**	**Type**	**rat(A)**	**Irm(A)**	**Type**	**Type**	**Irth [1]**
0,09	0,54	0,52	0,50	1	GV4L or GV4LE	2	14	LC1-D09	LRD-05	0,63/1
0,12	0,73	0,7	0,67	1	GV4L or GV4LE	2	14	LC1-D09	LRD-05	0,63/1
0,18	1,05	1	0,96	1,6	GV4L or GV4LE	2	22	LC1-D09	LRD-06	1/1,6
0,25	1,57	1,5	1,44	1,6	GV4L or GV4LE	2	22	LC1-D09	LRD-06	1/1,6
0,37	2,0	1,9	1,82	2,5	GV4L or GV4LE	3,5	35	LC1-D09	LRD-07	1,6/2,5
0,55	2,7	2,6	2,5	3	GV4L or GV4LE	3,5	42	LC1-D32	LRD-08	2,5/4
0,75	3,5	3,3	3,2	4	GV4L or GV4LE	7	56	LC1-D32	LRD-08	2,5/4
1,1	4,9	4,7	4,5	6	GV4L or GV4LE	7	84	LC1-D32	LRD-10	4/6
1,5	6,6	6,3	6,0	7	GV4L or GV4LE	7	91	LC1-D40A	LRD-12 [3]	5,5/8
2,2	8,9	8,5	8,1	10	GV4L or GV4LE	12.5	138	LC1-D40A	LRD-14 [3]	7 /10
3	11,8	11,3	10,8	12,5	GV4L or GV4LE	12.5	163	LC1-D40A	LRD313	9/13
4	15,7	15	14,4	18	GV4L or GV4LE	25	250	LC1-D40A	LRD318	12/18
					NSX100-MA	25	250	LC1-D80	LRD 3321	12/18
5,5	20,9	20	19,2	25	GV4L or GV4LE	25	325	LC1-D40A	LRD325	17/25
					NSX100-MA	25	325	LC1-D80	LRD 3322	17/25
7,5	28,2	27	25,9	32	GV4L or GV4LE	50	450	LC1-D40A	LRD332	23/32
					NSX100-MA	50	450	LC1-D80	LRD-33 53	23/32
10	36,1	35	33,1	40	GV4L or GV4LE	50	550	LC1-D50A	LRD340	30/40
					NSX100-MA	50	550	LC1-D80	LRD-33 55	30/40
11	40	38	36	50	GV4L or GV4LE	50	650	LC1-D50A	LRD350	37/50
				40	NSX100-MA	50	550	LC1-D80	LRD-33 55	30/40
15	53	51	49	65	GV4L or GV4LE	80	880	LC1-D65A	LRD365	48/65
				63	NSX100-MA	100	700	LC1-D80	LRD-33 59	48/65
18,5	64	61	58	65	GV4L or GV4LE	80	880	LC1-D65A	LRD365	48/65
				63	NSX100-MA	100	900	LC1-D80	LRD-33 59	48/65
22	75	72	69	80	GV4L or GV4LE	80	1040	LC1-D80	LRD-33 63	63/80
					NSX100-MA	100	1100	LC1-D80	LRD-33 63	63/80
30	100	96	92	100	NSX100-MA	100	1300	LC1-D115	LR9-D53 67	60/100
								LC1-F115	LR9-F53 67	60/100
37	120	115	110	150	NSX160-MA	150	1950	LC1-D150	LR9-D53 69	90/150
								LC1-F150	LR9-F53 69	90/150
45	146	140	134	150	NSX160-MA	150	1950	LC1-D150	LR9-D53 69	90/150
								LC1-F150	LR9-F53 69	90/150
55	177	169	162	185	NSX250-MA	220	2420	LC1-F185	LR9-F53 71	132/220
				220	NSX400 - Micrologic 1.3M	320	2880	LC1-F265	LR9-F53 71	132/220
75	240	230	220	265	NSX400 - Micrologic 1.3M	320	3500	LC1-F265	LR9-F73 75	200/330
90	291	278	266	320	NSX400 - Micrologic 1.3M	320	4160	LC1-F330	LR9-F73 75	200/330
110	355	340	326	400	NSX630 - Micrologic 1.3M	500	5700	LC1-F400	LR9-F73 79	300/500
132	418	400	383	500	NSX630 - Micrologic 1.3M	500	6500	LC1-F500	LR9-F73 79	300/500
150	477	457	438	500	NSX630 - Micrologic 1.3M	500	6500	LC1-F500	LR9-F73 79	300/500
160	509	487	467	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LR9-F73 81	380/630
200	637	609	584	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LR9-F73 81	380/630
220	700	658	631	700	NS800L - Micrologic 5.0 - LR off	800	9600	LC1-F780 or LC1F1000	TC800/5 + LRD-10	630/1000
250	782	748	717	800	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1-F780 or LC1F1000	TC800/5 + LRD-10	630/1000

[1] For long starting (class 20), see the correspondence table for thermal relay.
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Separate overload relay.
[4] GV4LE only, for GV4 "S" performance with rotary handle, order GV4LE "S" & rotary handle separately.

Type 2 coordination (IEC 60947-4-1) 220/240 V



Circuit breakers, and contactors

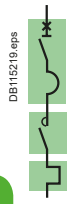
Performance "Iq" (kA): U = 220/240V						
Circuit breakers	**B**	**F**	**N**	**H**	**S**	**L**
GV4 P, PE & PEM 02 - 12	-	-	100	-	120 [4]	-
GV4 P, PE & PEM 25 - 115	50	-	100	-	120 [4]	-
NSX100/160/250 Micrologic 2.2M / 6.2M	-	85	90	100	120	150
NSX400/630 Micrologic 2.3M / 6.3M	-	85	90	100	120	150
NS800L/NS1000L Micrologic 5.0	-	-	-	-	-	150

Starting [1]	**Standard IEC 60947-4-1**			
Trip unit	GV4P, PE or PEM	Micrologic 2.2M / 2.3M	Micrologic 6.2M / 6.3M	Mircologic 5.0
normal (classe)	10	5, 10	5, 10	10
long (classe)	20	20	20, 30 [1]	20

Motors	**Guide values of operational current in amps at :**				**Circuit breakers**			**Contactors** [2]	**Thermal o/l relays**
P (kW)	**220V (A)**	**230V (A)**	**240V (A)**	**Ie max (A)**	**Type**	**trip unit**	**Irth(A)**	**Irm(A)** [3]	**Type**
0,09	0,54	0,52	0,50	1	GV4P, PE or PEM	2	0.8/2	14	LC1-D25
0,12	0,73	0,7	0,67	1	GV4P, PE or PEM	2	0.8/2	14	LC1-D25
0,18	1,05	1	0,96	1,6	GV4P, PE or PEM	2	0.8/2	22	LC1-D25
0,25	1,57	1,5	1,44	1,6	GV4P, PE or PEM	2	0.8/2	22	LC1-D25
0,37	2,0	1,9	1,82	2,5	GV4P, PE or PEM	3,5	1.4/3.5	42	LC1-D32
0,55	2,7	2,6	2,5	3	GV4P, PE or PEM	3,5	1.4/3.5	42	LC1-D32
0,75	3,5	3,3	3,2	4	GV4P, PE or PEM	7	2.9/7	56	LC1-D50A
1,1	4,9	4,7	4,5	6	GV4P, PE or PEM	7	2.9/7	84	LC1-D50A
1,5	6,6	6,3	6,0	7	GV4P, PE or PEM	7	2.9/7	91	LC1-D50A
2,2	8,9	8,5	8,1	10	GV4P, PE or PEM	12.5	5/12.5	138	LC1-D50A
3	11,8	11,3	10,8	12,5	GV4P, PE or PEM	12.5	5/12.5	163	LC1-D50A
				25	NSX100	Micrologic 2.2 or 6.2	12/25	13Irth	LC1-D80
4	15,7	15	14,4	18	GV4P, PE or PEM	25	10/25	250	LC1-D65A
				25	NSX100	Micrologic 2.2 or 6.2	12/25	13Irth	LC1-D80
5,5	20,9	20	19,2	25	GV4P, PE or PEM	25	10/25	250	LC1-D65A
					NSX100	Micrologic 2.2 or 6.2	12/25	13Irth	LC1-D80
7,5	28,2	27	25,9	50	GV4P, PE or PEM	50	20/50		LC1-D65A
					NSX100	Micrologic 2.2 or 6.2	25/50	13Irth	LC1-D80
10	36,1	35	33,1	50	GV4P, PE or PEM	50	20/50		LC1-D65A
					NSX100	Micrologic 2.2 or 6.2	25/50	13Irth	LC1-D80
11	40	38	36	50	GV4P, PE or PEM	50	20/50		LC1-D65A
					NSX100	Micrologic 2.2 or 6.2	25/50	13Irth	LC1-D80
15	53	51	49	80	GV4P, PE or PEM	80	40/80		LC1-D65A
					NSX100	Micrologic 2.2 or 6.2	50/100	13Irth	LC1-D80
18,5	64	61	58	80	GV4P, PE or PEM	80	40/80		LC1-D80
					NSX100	Micrologic 2.2 or 6.2	50/100	13Irth	LC1-D80
22	75	72	69	115	GV4P, PE or PEM	115	65/115		LC1-D115 or LC1-F115
				100	NSX100	Micrologic 2.2 or 6.2	50/100	13Irth	LC1-D115 or LC1-F115
30	100	96	92	100	GV4P, PE or PEM	115	65/115		LC1-D115 or LC1-F115
					NSX100	Micrologic 2.2 or 6.2	50/100	13Irth	LC1-D115 or LC1-F115
37	120	115	110	150	NSX160	Micrologic 2.2 or 6.2	70/150	13Irth	LC1D150 or LC1-F150
45	146	140	134	150	NSX160	Micrologic 2.2 or 6.2	70/150	13Irth	LC1D150 or LC1-F150
55	177	169	185	185	NSX250	Micrologic 2.2 or 6.2	100/220	13Irth	LC1-F185
					NSX400	Micrologic 2.3 or 6.3	160/320	13Irth	LC1-F185
75	240	230	220	265	NSX400	Micrologic 2.3 or 6.3	160/320	13Irth	LC1-F265
90	291	278	266	320	NSX400	Micrologic 2.3 or 6.3	160/320	13Irth	LC1-F330
110	355	340	326	400	NSX630	Micrologic 2.3 or 6.3	250/500	13Irth	LC1-F400
132	418	400	383	500	NSX630	Micrologic 2.3 or 6.3	250/500	13Irth	LC1-F500
150	448	429	411	500	NSX630	Micrologic 2.3 or 6.3	250/500	13Irth	LC1-F500
160	509	487	467	630	NS800L	Micrologic 5.0	320/800	8000	LC1-F630
200	637	609	584	630	NS800L	Micrologic 5.0	320/800	8000	LC1-F630
220	700	658	631	700	NS800L	Micrologic 5.0	320/800	9600	LC1-F780 or LC1F1000
250	782	748	717	800	NS1000L	Micrologic 5.0	400/1000	10000	LC1-F780 or LC1F1000

[1] For class 30 the contacteur rating shall be checked according to 30s thermal withstand (F range).
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for Micrologic 5.0 control unit.
[4] GV4PE and PEM only, for GV4 "S" performance with rotary handle, order GV4PE, PEM "S" & rotary handle separately.

Type 2 coordination (IEC 60947-4-1) 380/400V



Circuit breakers, contactors and thermal relays

Performance "Iq" (kA): U = 380/400V						
Circuit breaker	**B**	**F**	**N**	**H**	**S**	**L**
GV4L & LE 02 - 12	-	-	50	-	100 [4]	-
GV4L & LE 25 - 115	25	-	50	-	100 [4]	-
NSX100/160/250-MA	-	36	50	70	100	130
NSX400/630-Micrologic 1.3M	-	36	50	70	100	130
NS800L/NS1000L Micrologic 5.0	-	-	-	-	-	130

Starting [1]**:** normal LRD class 10 A, LR9 class 10.

Motors Rated power	**Guide values of operational current in amps at :**			**Circuit breakers**			**Contactors** [2]	**Thermal o/l relays**	
P(kW)	**380V**	**400V**	**Ie max**	**Type**	**rat(A)**	**Irm(A)** [3]	**Type**	**Type**	**Irth** [1]
0,18	0,63	0,6	1	GV4L or GV4LE	2	14	LC1-D09	LRD-05	0,63/1
0,25	0,89	0,85	1	GV4L or GV4LE	2	14	LC1-D09	LRD-05	0,63/1
0.37	1,16	1,1	1,6	GV4L or GV4LE	2	22	LC1-D09	LRD-06	1/1,6
0.55	1,58	1,5	2	GV4L or GV4LE	2	26	LC1-D09	LRD-06	1,6/2,5
0.75	2,00	1,9	2	GV4L or GV4LE	2	26	LC1-D09	LRD-07	1,6/2,5
1.1	2,8	2,7	3,5	GV4L or GV4LE	3,5	46	LC1-D25	LRD-08	2,5/4
1.5	3,8	3,6	7	GV4L or GV4LE	7	56	LC1-D40A	LR9D08 [5] [6]	1,6/8
2.2	5,2	4,9	7	GV4L or GV4LE	7	84	LC1-D40A	LR9D08 [5] [7]	1,6/8
3	6,8	6,5	7	GV4L or GV4LE	7	91	LC1-D40A	LRD-12 [5]	5,5/8
4	8,9	8,5	10	GV4L or GV4LE	12.5	138	LC1-D65A	LRD-14 [5]	7 /10
5.5	12,1	11,5	12,5	GV4L or GV4LE	12.5	163	LC1-D65A	LRD-313	9/13
7.5	16,3	15,5	18	GV4L or GV4LE	25	250	LC1-D65A	LRD-318	12/18
				NSX100-MA	25	250	LC1-D80	LRD 3321	12/18
10	20	19	25	GV4L or GV4LE	25	325	LC1-D65A	LRD-325	17/25
				NSX100-MA	25	325	LC1-D80	LRD 3322	17/25
11	23	22	25	GV4L or GV4LE	25	325	LC1-D65A	LRD-325	17/25
				NSX100-MA	25	450	LC1-D80	LRD 3322	17/25
15	31	29	32	GV4L or GV4LE	50	450	LC1-D65A	LRD-332	23/32
				NSX100-MA	50	450	LC1-D80	LRD-33 53	23/32
18.5	37	35	40	GV4L or GV4LE	50	550	LC1-D65A	LRD-340	30/40
				NSX100-MA	50	550	LC1-D80	LRD-33 55	30/40
22	43	41	50	GV4L or GV4LE	50	650	LC1-D65A	LRD-350	37/50
				NSX100-MA	50	650	LC1-D80	LRD-33 57	37/50
30	58	55	65	GV4L or GV4LE	80	880	LC1-D65A	LRD-365	48/65
			63	NSX100-MA	100	900	LC1-D80	LRD-33 59	48/65
37	69	66	80	GV4L or GV4LE	80	1040	LC1-D80	LRD-33 63	63/80
				NSX100-MA	100	1100	LC1-D80	LRD-33 63	63/80
45	84	80	100	GV4L or GV4LE	115	1380	LC1-D115	LR9D-5367	60/100
							LC1-F115	LR9-F5367	
				NSX100-MA	100	1300	LC1-D115	LR9-D53 67	60/100
							LC1-F115	LR9-F53 67	
55	102	97	115	GV4L or GV4LE	115	1495	LC1-D115	LR9D-5369	90/150
							LC1-F115	LR9-F5369	90/150
			150	NSX160-MA	150	1950	LC1-D150	LR9-D53 69	90/150
							LC1-F150	LR9-F53 69	90/150
75	139	132	150	NSX160-MA	150	1950	LC1-D150	LR9-D53 69	90/150
							LC1-F150	LR9-F53 69	90/150
90	168	160	185	NSX250-MA	220	2420	LC1-F185	LR9-F53 71	132/220
110	205	195	220	NSX250-MA	220	2860	LC1-F225	LR9-F53 71	132/220
				NSX400-Micrologic 1.3M	320	3500	LC1-F265	LR9-F53 71	132/220
132	242	230	265	NSX400-Micrologic 1.3M	320	3500	LC1-F265	LR9-F73 75	200/330
160	295	280	320	NSX400-Micrologic 1.3M	320	4160	LC1-F330	LR9-F73 75	200/330
200	368	350	400	NSX630-Micrologic 1.3M	500	5500	LC1-F400 (70kA)	LR9-F73 79	300/500
							LC1-F500 (130kA)	LR9-F73 79	300/500
220	400	380	500	NSX630-Micrologic 1.3M	500	6500	LC1-F500	LR9-F73 79	300/500
250	453	430	500	NSX630-Micrologic 1.3M	500	6500	LC1-F500	LR9-F73 79	300/500
300	526	500	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LR9-F73 81	380/630
315	568	540	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LR9-F73 81	380/630
355	642	610	780	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1-F780 or LC1 F1000	TC800/1 + LRD-05	500/800
400	726	690	780	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1-F780 or LC1 F1000	TC800/1 + LRD-05	500/800
450	789	750	780	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1-F780 or LC1 F1000	TC800/1 + LRD-05	500/800
500	895	850	900	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1-F1000	TC1000/1 + LRD-05	600/1000

[1] Heavy starting (class 20), see thermal O/L chart of equivalence.
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for Micrologic 5.0 control unit.
[4] GV4LE only, for GV4 "S" performance with rotary handle, order GV4LE "S" & rotary handle separately.
[5] Separate overload Relay, use terminal block LAD7B106.
[6] or 1.5kW: GV4L 7A + GV1L3+LC1-D32+LRD08.
[7] or 2.2kW: GV4L 7A + GV1L3+LC1-D32+LRD10.

Type 2 coordination (IEC 60947-4-1) 380/400V

Circuit breakers, and contactors

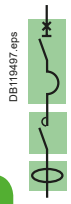
Performance "Iq" (kA): U = 380/400V						
Circuit breaker	**B**	**F**	**N**	**H**	**S**	**L**
GV4 P, PE & PEM 02 - 12	-	-	50	-	100 [4]	-
GV4 P, PE & PEM 25 - 115	25	-	50	-	100 [4]	-
NSX100/160/250 Micrologic 2.2M / 6.2M	-	36	50	70	100	130
NSX400/630 Micrologic 2.3M / 6.3M	-	36	50	70	100	130
NS800L/NS1000L Micrologic 5.0	-	-	-	-	-	130

Starting [1] **Standard IEC 60947-4-1**				
Trip unit	GV4P, PE or PEM	Micrologic 2.2M / 2.3M	Micrologic 6.2M / 6.3M	Mircologic 5.0
normal (classe)	10	5, 10	5, 10	10
long (classe)	20	20	20, 30 [1]	20

Motors Rated power	**Guide values of operational current in amps at :**			**Circuit breakers**				**Contactors** [2]
P(kW)	**380V**	**400V**	**Ie max**	**Type**	**trip unit**	**Irth(A)**	**Irm(A)** [3]	**Type**
0,18	0,63	0,6	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0,25	0,89	0,85	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.37	1,16	1,1	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.55	1,58	1,5	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.75	2,00	1,9	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
1.1	2,8	2,7	3,5	GV4P, PE or PEM	3,5	1.4/3.5	60	LC1-D32
1.5	3,8	3,6	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D50A
2.2	5,2	4,9	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D50A
3	6,8	6,5	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D50A
4	8,9	8,5	12,5	GV4P, PE or PEM	12,5	5/12.5	213	LC1-D50A
5.5	12,1	11,5	12,5	GV4P, PE or PEM	12,5	5/12.5	213	LC1-D50A
7.5	16,3	15,5	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
			25	NSX100	Micrologic 2.2M or 6.2M	12/25	13Irth	LC1-D80
10	20	19	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
				NSX100	Micrologic 2.2M or 6.2M	12/25	13Irth	LC1-D80
11	23	22	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
				NSX100	Micrologic 2.2M or 6.2M	12/25	13Irth	LC1-D80
15	31	29	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
				NSX100	Micrologic 2.2M or 6.2M	25/50	13Irth	LC1-D80
18.5	37	35	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
				NSX100	Micrologic 2.2M or 6.2M	25/50	13Irth	LC1-D80
22	43	41	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
				NSX100	Micrologic 2.2M or 6.2M	25/50	13Irth	LC1-D80
30	58	55	65	GV4P, PE or PEM	80	40/80	1360	LC1-D65A
			80	NSX100	Micrologic 2.2M or 6.2M	50/100(80)	13Irth	LC1-D80
37	69	66	80	GV4P, PE or PEM	80	40/80	1360	LC1-D80
				NSX100	Micrologic 2.2M or 6.2M	50/100(80)	13Irth	LC1-D80
45	84	80	115	GV4P, PE or PEM	115	65/115	1955	LC1-D115 or LC1-F115
			100	NSX100	Micrologic 2.2M	50/100	13Irth	LC1-D115 or LC1-F115
55	102	97	115	GV4P, PE or PEM	115	65/115	1955	LC1-D115 or LC1-F115
				NSX160	Micrologic 2.2M or 6.2M	70/150	13Irth	LC1-D150 or LC1-F150
75	139	132	150	NSX160	Micrologic 2.2M or 6.2M	70/150	13Irth	LC1-D150 or LC1-F150
90	168	160	185	NSX250	Micrologic 2.2M or 6.2M	100/220	13Irth	LC1-F225
110	205	195	220	NSX250	Micrologic 2.2M or 6.2M	100/220	13Irth	LC1-F225
			265	NSX400	Micrologic 2.3M or 6.3M	160/320	13Irth	LC1-F265
132	242	230	265	NSX400	Micrologic 2.3M or 6.3M	160/320	13Irth	LC1-F265
160	295	280	320	NSX400	Micrologic 2.3M or 6.3M	160/320	13Irth	LC1-F330
200	368	350	400	NSX630	Micrologic 2.3M or 6.3M	250/500	13Irth	LC1-F400 (70kA)
			500	NSX630	Micrologic 2.3M or 6.3M	250/500	13Irth	LC1-F500 (130kA)
220	400	380	500	NSX630	Micrologic 2.3M or 6.3M	250/500	13Irth	LC1-F500
250	453	430	500	NSX630	Micrologic 2.3M or 6.3M	250/500	13Irth	LC1-F500
300	526	500	630	NS800L	Micrologic 5.0	320/800	8000	LC1-F630
315	568	540	630	NS800L	Micrologic 5.0	320/800	8000	LC1-F630
355	642	610	780/900	NS1000L	Micrologic 5.0	400/1000	10 000	LC1-F780 or LC1-F1000
400	726	690	780/900	NS1000L	Micrologic 5.0	400/1000	10 000	LC1-F780 or LC1-F1000
450	789	750	780/900	NS1000L	Micrologic 5.0	400/1000	10 000	LC1-F780 or LC1-F1000
500	895	850	900	NS1000L	Micrologic 5.0	400/1000	10 000	LC1-F1000

[1] For class 30 the contacteur rating shall be checked according to 30s thermal withstand (F range).
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for Micrologic 5.0 control unit.
[4] GV4PE and PEM only, for GV4 "S" performance with rotary handle, order GV4PE, PEM "S" & rotary handle separately.

Type 2 coordination (IEC 60947-4-1) 380/400 V



With short circuit breaker protection

Contactor

Thermal relay on CT

Circuit breakers, contactors and thermal relays

Performance "Iq" (kA): U = 380/400V						
Circuit breaker	**B**	**F**	**N**	**H**	**S**	**L**
GV4L & LE 02 - 12	-	-	50	-	100 [4]	-
GV4L & LE 25 - 115	25	-	50	-	100 [4]	-
NSX100/160/250-MA	-	36	50	70	100	130
NSX400/630-MA	-	36	50	70	100	130
NS800L/NS1000L Micrologic 5.0	-	-	-	-	-	130

Starting [1]**:** normal LRD class 10 A, LR9 class 10.

Motors Rated power	**Guide values of operational current in amps at :**			**Circuit breakers**			**Contactors** [2]	**Thermal o/l relays**			
								Adj. class 10A to 30		**Class 10**	
P(kW)	**380V**	**400V**	**Ie max**	**Type**	**rat(A)**	**Irm(A)**	**Type**	**Type**	**Irth** [1]	**Type**	**Irth**
0,18	0,63	0,6	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0,4/8	LR9D02	0.4/2
0,25	0,89	0,85	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0,4/8	LR9D02	0.4/2
0.37	1,16	1,1	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0,4/8	LR9D02	0.4/2
0.55	1,58	1,5	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0,4/8	LR9D02	0.4/2
0.75	2,00	1,9	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0,4/8	LR9D02	0.4/2
1.1	2,8	2,7	3,5	GV4L or GV4LE	3,5	46	LC1-D40A	LTM R08	0,4/8	LR9D08	1.6/8
1.5	3,8	3,6	7	GV4L or GV4LE	7	91	LC1-D40A	LTM R08	0,4/8	LR9D08	1.6/8
2.2	5,2	4,9	7	GV4L or GV4LE	7	91	LC1-D40A	LTM R08	0,4/8	LR9D08	1.6/8
3	6,8	6,5	7	GV4L or GV4LE	7	91	LC1-D40A	LTM R08	0,4/8	LR9D08	1.6/8
4	8,9	8,5	10	GV4L or GV4LE	12,5	138	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
			12,5	NSX100-MA	12,5	163	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
5.5	12,1	11,5	12,5	GV4L or GV4LE	12,5	163	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
				NSX100-MA	12,5	163	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
7.5	16,3	15,5	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
				NSX100-MA	25	325	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
10	20	19	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
				NSX100-MA	25	325	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
11	23	22	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
				NSX100-MA	25	325	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
15	31	29	32	GV4L or GV4LE	50	550	LC1-D65A	LTM R100	5/100	LR9D32	6.4/32
			32	NSX100-MA	50	550	LC1-D80	LTM R100	5/100	LR9D32	6.4/32
18.5	37	35	40	GV4L or GV4LE	50	550	LC1-D65A	LTM R100	5/100	LR9D110	22/110
			50	NSX100-MA	50	550	LC1-D80	LTM R100	5/100	LR9D110	22/110
22	43	41	50	GV4L or GV4LE	50	650	LC1-D65A	LTM R100	5/100	LR9D110	22/110
				NSX100-MA	50	550	LC1-D80	LTM R100	5/100	LR9D110	22/110
30	58	55	65	GV4L or GV4LE	80	880	LC1-D65A	LTM R100	5/100	LR9D110	22/110
			80	NSX100-MA	100	1100	LC1-D80	LTM R100	5/100	LR9D110	22/110
37	69	66	80	GV4L or GV4LE	80	1040	LC1-D80	LTM R100	5/100	LR9D110	22/110
				NSX100-MA	100	1100	LC1-D80	LTM R100	5/100	LR9D110	22/110
45	84	80	92	GV4L or GV4LE	115	1265	LC1-D115 or F115	LTM R100	5/100	LR9D110	22/110
			100	NSX160-MA	150	1300	LC1-D115 or F115	LTM R100	5/100	LR9D110	22/110
55	102	97	115	GV4L or GV4LE	115	1495	LC1-D115 or F115	LTM R08	on CT	LR9D08	on CT
				NSX160-MA	150	1300	LC1-D115 or F115	LTM R08	on CT	LR9D08	on CT
75	139	132	150	NSX160-MA	150	1950	LC1-D150 or F150	LTM R08	on CT	LR9D08	on CT
90	168	160	185	NSX250-MA	220	2420	LC1-F185	LTM R08	on CT	LR9D08	on CT
110	205	195	220	NSX250-MA	220	2860	LC1-F225	LTM R08	on CT	LR9D08	on CT
			265	NSX400 1.3M	320	3500	LC1-F265			LR9D08	on CT
132	242	230	265	NSX400 1.3M	320	3500	LC1-F265	LTM R08	on CT	LR9D08	on CT
160	295	280	320	NSX400 1.3M	320	4000	LC1-F330	LTM R08	on CT	LR9D08	on CT
200	368	350	400	NSX630-1.3M	500	5500	LC1-F400 (70kA)	LTM R08	on CT	LR9D08	on CT
			500	NSX630-1.3M	500	5500	LC1-F500 (130kA)	LTM R08	on CT	LR9D08	on CT
220	400	380	500	NSX630-1.3M	500	6500	LC1-F500	LTM R08	on CT	LR9D08	on CT
250	453	430	500	NSX630-1.3M	500	6500	LC1-F500	LTM R08	on CT	LR9D08	on CT
300	526	500	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LTM R08	on CT	LR9D08	on CT
315	568	540	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LTM R08	on CT	LR9D08	on CT
355	642	610	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LTM R08	on CT	LR9D08	on CT
400	726	690	780	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1-F780 or LC1F1000	LTM R08	on CT	LR9D08	on CT
450	789	750	780	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1-F780 or LC1F1000	LTM R08	on CT	LR9D08	on CT
500	895	850	780	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1-F780 or LC1F1000	LTM R08	on CT	LR9D08	on CT
500		850	900,00	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1-F1000	LTM R08	on CT	LR9D08	on CT

[1] For installations with a class 30 relay, a derating of 20% must be apply on Circuit breakers and the contacteur rating shall be checked according to 30s thermal withstand (F range).
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for Micrologic 5.0 control unit.
[4] GV4LE only, for GV4 "S" performance with rotary handle, order GV4LE "S" & rotary handle separately.

Type 2 coordination (IEC 60947-4-1) 415 V

Magnetic circuit breaker (MA)

Contactor

Thermal relay

Circuit breakers, contactors and thermal relays

Performance "Iq" (kA): U = 415V						
Circuit breaker	**B**	**F**	**N**	**H**	**S**	**L**
GV4L & LE 02 - 12	-	-	50	-	100 [4]	-
GV4L & LE 25 - 115	25	-	50	-	100 [4]	-
NSX100/160/250-MA	-	36	50	70	100	130
NSX400/630-Micrologic 1.3M	-	36	50	70	100	130
NS800L/NS1000L Micrologic 5.0	-	-	-	-	-	130

Starting [1]**:** normal LRD class 10 A, LR9 class 10.

Motors Rated power	Guide values of operational current in amps at :		Circuit breakers			Contactors [2]	Thermal o/l relays	
P(kW)	415V	Ie max	Type	rat(A)	Irm(A) [3]	Type	Type	Irth [1]
0,18	0,58	1	GV4L	2	14	LC1-D09	LRD-05	0,63/1
0,25	0,82	1	GV4L	2	14	LC1-D09	LRD-05	0,63/1
0.37	1,06	1,6	GV4L	2	22	LC1-D09	LRD-06	1/1,6
0.55	1,45	2	GV4L	2	26	LC1-D09	LRD-06	1,6/2,5
0.75	1,83	2	GV4L	2	26	LC1-D09	LRD-07	1,6/2,5
1.1	2,60	3,5	GV4L	3,5	46	LC1-D25	LRD-08	2,5/4
1.5	3,5	7	GV4L	7	56	LC1-D40A	LR9D08 [5] [6]	1,6/8
2.2	4,7	7	GV4L	7	84	LC1-D40A	LR9D08 [5] [7]	1,6/8
3	6,3	7	GV4L	7	91	LC1-D40A	LRD-12 [5]	5,5/8
4	8,2	10	GV4L	12.5	138	LC1-D65A	LRD-14 [5]	7 /10
5.5	11,1	12,5	GV4L	12.5	163	LC1-D65A	LRD-313	9/13
7.5	14,9	18	GV4L	25	250	LC1-D65A	LRD-318	12/18
			NSX100-MA	25	250	LC1-D80	LRD 3321	12/18
10	18,3	25	GV4L	25	325	LC1-D65A	LRD-325	17/25
			NSX100-MA	25	325	LC1-D80	LRD 3322	17/25
11	21,2	25	GV4L	25	325	LC1-D65A	LRD-325	17/25
			NSX100-MA	25	325	LC1-D80	LRD 3322	17/25
15	28,0	32	GV4L	50	450	LC1-D65A	LRD-332	23/32
			NSX100-MA	50	450	LC1-D80	LRD-33 53	23/32
18.5	33,7	40	GV4L	50	550	LC1-D65A	LRD-340	30/40
			NSX100-MA	50	550	LC1-D80	LRD-33 55	30/40
22	39,5	50	GV4L	50	650	LC1-D65A	LRD-350	37/50
		40	NSX100-MA	50	550	LC1-D80	LRD-33 55	30/40
30	53,0	63	GV4L	80	880	LC1-D65A	LRD-365	48/65
			NSX100-MA	100	1100	LC1-D80	LRD-33 59	48/65
37	63,6	80	GV4L	80	1040	LC1-D80	LRD-33 63	63/80
			NSX100-MA	100	1100	LC1-D80	LRD-33 63	63/80
45	77,1	80	GV4L	80	1040	LC1-D80	LRD-33 63	63/80
			NSX100-MA	100	1100	LC1-D80	LRD-33 63	63/80
55	93,5	115	GV4L	115	1495	LC1-D115 LC1-F115	LR9D-5369 LR9-F5369	90/150
		150	NSX160-MA	150	1950	LC1-D150	LR9-D53 69	90/150
						LC1-F150	LR9-F53 69	
75	127,2	150	NSX160-MA	150	1950	LC1-D150	LR9-D53 69	90/150
						LC1-F150	LR9-F53 69	
90	154,2	185	NSX250-MA	220	2420	LC1-F185	LR9-F53 71	132/220
110	188,0	220	NSX250-MA	220	2860	LC1-F225	LR9-F53 71	132/220
132	221,7	265	NSX400-Micrologic 1.3M	320	3500	LC1-F265	LR9-F73 75	200/330
160	269,9	320	NSX400-Micrologic 1.3M	320	4160	LC1-F330	LR9-F73 75	200/330
200	337,3	400	NSX630-Micrologic 1.3M	500	5500	LC1-F400 (70kA)	LR9-F73 79	300/500
		500	NSX630-Micrologic 1.3M	500	5500	LC1-F500 (130kA)	LR9-F73 79	300/500
220	366,3	400	NSX630-Micrologic 1.3M	500	6500	LC1-F400 (70kA)	LR9-F73 79	300/500
		500	NSX630-Micrologic 1.3M	500	6500	LC1-F500 (130kA)	LR9-F73 79	300/500
250	414,5	500	NSX630-Micrologic 1.3M	500	6500	LC1-F500	LR9-F73 79	300/500
300	481,9	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LR9-F73 81	380/630
315	520,5	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LR9-F73 81	380/630
355	588,0	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LR9-F73 81	380/630
400	665,1	780	NS1000L - Micrologic 5.0 - LR off	1000	9600	LC1-F780/ LC1F1000	TC800/1 + LRD-05	500/800
450	722,9	780	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1-F780/ LC1F1000	TC800/1 + LRD-05	500/800
500	819,3	850	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1-F1000	TC1000/1 + LRD-05	500/1000

[1] Heavy starting (class 20), see thermal O/L chart of equivalence.
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for Micrologic 5.0 control unit.
[4] GV4LE only, for GV4 "S" performance with rotary handle, order GV4LE "S" & rotary handle separately.
[5] Separate overload Relay, use terminal block LAD7B106.
[6] or 1.5kW: GV4L 7A + GV1L3+LC1-D32+LRD08.
[7] or 2.2kW: GV4L 7A + GV1L3+LC1-D32+LRD10.

Type 2 coordination (IEC 60947-4-1) 415 V

Circuit breakers, contactors

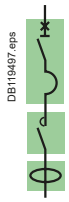
Performance "Iq" (kA): Ue = 415 V						
Circuit breaker	**B**	**F**	**N**	**H**	**S**	**L**
GV4 P, PE & PEM 02 - 12	-	-	50	-	100 [4]	-
GV4 P, PE & PEM 25 - 115	25	-	50	-	100 [4]	-
NSX100/160/250 Micrologic 2.2M / 6.2M	-	36	50	70	100	130
NSX400/630 Micrologic 2.3M / 6.3M	-	36	50	70	100	130
NS800L/NS1000L Micrologic 5.0	-	-	-	-	-	130

Starting [1] **Standard IEC 60947-4-1**				
Trip unit	GV4P, PE or PEM	Micrologic 2.2M / 2.3M	Micrologic 6.2M / 6.3M	Mircologic 5.0
normal (classe)	10	5, 10	5, 10	10
long (classe)	20	20	20, 30 [1]	20

Motors Rated power	**Guide values of operational current in amps at :**		**Circuit breakers**				**Contactors** [2]
P(kW)	**415V**	**Ie max**	**Type**	**trip unit**	**Irth(A)**	**Irm(A)** [3]	**Type**
0,18	0,58	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0,25	0,82	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.37	1,06	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.55	1,45	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.75	1,83	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
1.1	2,60	3,5	GV4P, PE or PEM	3,5	1.4/3.5	60	LC1-D32
1.5	3,5	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D50A
2.2	4,7	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D50A
3	6,3	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D50A
4	8,2	12,5	GV4P, PE or PEM	12,5	5/12.5	213	LC1-D50A
5.5	11,1	12,5	GV4P, PE or PEM	12,5	5/12.5	213	LC1-D50A
7.5	15	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
			NSX100	Micrologic 2.2M or 6.2M	12/25	13Irth	LC1-D80
10	18	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
			NSX100	Micrologic 2.2M or 6.2M	12/25	13Irth	LC1-D80
11	21	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
			NSX100	Micrologic 2.2M or 6.2M	12/25	13Irth	LC1-D80
15	28	50	GV4P, PE or PEM	50	10/25	850	LC1-D65A
			NSX100	Micrologic 2.2M or 6.2M	25/50	13Irth	LC1-D80
18.5	34	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
			NSX100	Micrologic 2.2M or 6.2M	25/50	13Irth	LC1-D80
22	40	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
			NSX100	Micrologic 2.2M or 6.2M	25/50	13Irth	LC1-D80
30	53	65	GV4P, PE or PEM	80	40/80	1360	LC1-D65A
		80	NSX100	Micrologic 2.2M or 6.2M	50/100(80)	13Irth	LC1-D80
37	64	80	GV4P, PE or PEM	80	40/80	1360	LC1-D80
			NSX100	Micrologic 2.2M or 6.2M	50/100(80)	13Irth	LC1-D80
45	77	115	GV4P, PE or PEM	115	65/115	1955	LC1-D115 or LC1-F115
		100	NSX100	Micrologic 2.2M	50/100	13Irth	LC1-D115 or LC1-F115
55	94	115	GV4P, PE or PEM	115	65/115	1955	LC1-D115 or LC1-F115
		150	NSX160	Micrologic 2.2M or 6.2M	70/150	13Irth	LC1-D150 or LC1-F150
75	127	150	NSX160	Micrologic 2.2M or 6.2M	70/150	13Irth	LC1-D150 or LC1-F150
90	154	185	NSX250	Micrologic 2.2M or 6.2M	100/220	13Irth	LC1-F225
110	188	220	NSX250	Micrologic 2.2M or 6.2M	100/220	13Irth	LC1-F225
132	222	265	NSX400	Micrologic 2.3M or 6.3M	160/320	13Irth	LC1-F265
160	270	320	NSX400	Micrologic 2.3M or 6.3M	160/320	13Irth	LC1-F330
200	337	400	NSX630	Micrologic 2.3M or 6.3M	250/500	13Irth	LC1-F400 (70kA)
		500	NSX630	Micrologic 2.3M or 6.3M	250/500	13Irth	LC1-F500 (130kA)
220	366	400	NSX630	Micrologic 2.3M or 6.3M	250/500	13Irth	LC1-F400 (70kA)
		500	NSX630	Micrologic 2.3M or 6.3M	250/500	13Irth	LC1-F500 (130kA)
250	415	500	NSX630	Micrologic 2.3M or 6.3M	250/500	13Irth	LC1-F500
300	482	630	NS800L	Micrologic 5.0	320/800	8000	LC1-F630
315	521	630	NS800L	Micrologic 5.0	320/800	8000	LC1-F630
355	588	780	NS1000L	Micrologic 5.0	400/1000	10000	LC1-F780 or LC1F1000
400	665	780	NS1000L	Micrologic 5.0	400/1000	10000	LC1-F780 or LC1F1000
450	723	780	NS1000L	Micrologic 5.0	400/1000	10000	LC1-F780 or LC1F1000
500	819	850	NS1000L	Micrologic 5.0	400/1000	10000	LC1F1000

[1] For class 30 the contacteur rating shall be checked according to 30s thermal withstand (F range).
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for Micrologic 5.0 control unit.
[4] GV4PE and PEM only, for GV4 "S" performance with rotary handle, order GV4PE, PEM "S" & rotary handle separately

Type 2 coordination (IEC 60947-4-1) 415 V



Circuit breakers, contactors and thermal relays

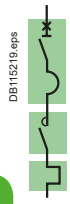
Performance "Iq" (kA): Ue = 415 V						
Circuit breakers	**B**	**F**	**N**	**H**	**S**	**L**
GV4 L & LE 02 - 12	-	-	50	-	100 [4]	-
GV4 L & LE 25 - 115	25	-	50	-	100 [4]	-
NSX100/160/250-MA	-	36	50	70	100	130
NSX400/630-MA	-	36	50	70	100	130
NS800L/NS1000L Micrologic 5.0	-	-	-	-	-	130

Starting [1]: adjustable class 10 A to 30.

Motors Rated power	**Guide values of operational current in amps at :**		**Circuit breakers**			**Contactors** [2]	**Thermal o/l relays**			
							Adj. class 10A to 30		**Class 10**	
P(kW)	**415V**	**Ie max**	**Type**	**rat(A)**	**Irm(A)**	**Type**	**Type**	**Irth** [1]	**Type**	**Irth**
0,18	0,58	2	GV4L	2	26	LC1-D32	LTM R08	0,4/8	LR9D02	0.4/2
0,25	0,82	2	GV4L	2	26	LC1-D32	LTM R08	0,4/8	LR9D02	0.4/2
0.37	1,06	2	GV4L	2	26	LC1-D32	LTM R08	0,4/8	LR9D02	0.4/2
0.55	1,45	2	GV4L	2	26	LC1-D32	LTM R08	0,4/8	LR9D02	0.4/2
0.75	1,83	2	GV4L	2	26	LC1-D32	LTM R08	0,d4/8	LR9D02	0.4/2
1.1	2,60	3,5	GV4L	3,5	46	LC1-D40A	LTM R08	0,4/8	LR9D08	1.6/8
1.5	3,5	7	GV4L	7	91	LC1-D40A	LTM R08	0,4/8	LR9D08	1.6/8
2.2	4,7	7	GV4L	7	91	LC1-D40A	LTM R08	0,4/8	LR9D08	1.6/8
3	6,3	7	GV4L	7	91	LC1-D40A	LTM R08	0,4/8	LR9D08	1.6/8
4	8,2	10	GV4L	12,5	138	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
		12,5	NSX100-MA	12,5	163	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
5.5	11,1	12,5	GV4L	12,5	163	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
			NSX100-MA	12,5	163	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
7.5	14,9	25	GV4L	25	325	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
			NSX100-MA	25	325	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
10	18,3	25	GV4L	25	325	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
			NSX100-MA	25	325	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
11	21,2	25	GV4L	25	325	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
			NSX100-MA	25	325	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
15	28,0	32	GV4L	50	550	LC1-D65A	LTM R100	5/100	LR9D32	6.4/32
		32	NSX100-MA	50	650	LC1-D80	LTM R100	5/100	LR9D32	6.4/32
18.5	33,7	40	GV4L	50	550	LC1-D65A	LTM R100	5/100	LR9D110	22/110
		50	NSX100-MA	50	650	LC1-D80	LTM R100	5/100	LR9D110	22/110
22	39,5	50	GV4L	50	650	LC1-D65A	LTM R100	5/100	LR9D110	22/110
			NSX100-MA	50	650	LC1-D80	LTM R100	5/100	LR9D110	22/110
30	53,0	65	GV4L	80	880	LC1-D65A	LTM R100	5/100	LR9D110	22/110
		80	NSX100-MA	100	1100	LC1-D80	LTM R100	5/100	LR9D110	22/110
37	63,6	80	GV4L	80	1040	LC1-D80	LTM R100	5/100	LR9D110	22/110
			NSX100-MA	100	1100	LC1-D80	LTM R100	5/100	LR9D110	22/110
45	77,1	115	GV4L	115	1265	LC1-D115 or LC1-F115	LTM R100	5/100	LR9D110	22/110
		100	NSX100-MA	100	1100	LC1-D115 or LC1-F115	LTM R100	5/100	LR9D110	22/110
55	93,5	115	GV4L	115	1495	LC1-D115 or LC1-F115	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
		150	NSX160-MA	150	1950	LC1-D150 or LC1F50	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
75	127,2	150	NSX160-MA	150	1950	LC1-D150 or LC1F50	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
90	154,2	185	NSX250-MA	220	2420	LC1-F185	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
110	188,0	220	NSX250-MA	220	2860	LC1-F225	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
132	221,7	265	NSX400 1.3M	320	3500	LC1-F265			LR9D08	sur TC/on CT
160	269,9	320	NSX400 1.3M	320	4000	LC1-F330	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
200	337,3	400	NSX630-1.3M	500	5500	LC1-F400 (70kA)	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
		500			6300	LC1-F500 (130kA)	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
220	366,3	400	NSX630-1.3M	500	5500	LC1-F400 (70kA)	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
		500			6300	LC1-F500 (130kA)	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
250	414,5	500	NSX630-1.3M	500	6300	LC1-F500	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
300	481,9	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
315	520,5	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
355	588,0	780	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1-F780 or LC1F1000	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
400	665,1	780	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1-F780 or LC1F1000	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
450	722,9	780	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1-F780 or LC1F1000	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT
500	819,3	900	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1F1000	LTM R08	sur TC/on CT	LR9D08	sur TC/on CT

[1] For installations with a class 30 relay, a derating of 20% must be apply on Circuit breakers and the contacteur rating shall be checked according to 30s thermal withstand (F range).
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for Micrologic 5.0 control unit.
[4] GV4LE only, for GV4 "S" performance with rotary handle, order GV4LE "S" & rotary handle separately

Type 2 coordination (IEC 60947-4-1) 440 V



Circuit breakers, contactors and thermal relays

Performance "Iq" (kA): Ue = 440V [2]						
Circuit breakers	**B**	**F**	**N**	**H**	**S**	**L**
GV4L & LE 02 - 12	-	-	50	-	70 [4]	-
GV4L & LE 25 - 115	20	-	50	-	70 [4]	-
NSX100/160/250-MA	-	35	50	65	90	130
NSX400/630-Micrologic 1.3M	-	30	42	65	90	130
NS630bL/NS800L/NS1000L Micrologic 5.0	-	-	-	-	-	130

Starting [1]: normal LRD class 10 A, LR9 class 10.

Motors	**Guide values of operational current in amps at :**		**Circuit breakers**			**Contactors** [2]	**Thermal o/l relays**	
Rated power P(kW)	**440V (A)**	**Ie max**	**Type**	**rat(A)**	**Irm(A)** [6]	**Type**	**Type**	**Irth** [1]
0,18	0,55	1	GV4L or GV4LE	2	14	LC1-D09	LRD-05	0,63/1
0,25	0,77	1	GV4L or GV4LE	2	14	LC1-D09	LRD-05	0,63/1
0,37	1	1,6	GV4L or GV4LE	2	22	LC1-D09	LRD-06	1/1,6
0,55	1,36	1,6	GV4L or GV4LE	2	22	LC1-D09	LRD-06	1/1,6
0,75	1,7	2	GV4L or GV4LE	2	26	LC1-D09	LRD-07	1,6/2,5
1,1	2,4	2,5	GV4L or GV4LE	3,5	35	LC1-D40A	LR9D08 [5]	1,6/8
1,5	3,3	3,5	GV4L or GV4LE	3,5	46	LC1-D40A	LR9D08 [5]	1,6/8
2,2	4,5	5	GV4L or GV4LE	7	70	LC1-D40A	LR9D08 [5]	1,6/8
3	5,9	7	GV4L or GV4LE	7	91	LC1-D40A	LRD-12 [5]	5.5/8
4	7,7	8	GV4L or GV4LE	12,5	113	LC1-D65A	LRD-12 [5]	5,5/8
5,5	10,5	12,5	GV4L or GV4LE	12,5	163	LC1-D65A	LRD-313	9/13
7,5	14	16	GV4L or GV4LE	25	225	LC1-D65A	LRD-318	12/18
		18	NSX100-MA	25	250	LC1-D80	LRD 3321	12/18
10	18,2	25	GV4L or GV4LE	25	325	LC1-D65A	LRD-325	17/25
			NSX100-MA	25	325	LC1-D80	LRD 3322	17/25
11	20	25	GV4L or GV4LE	25	325	LC1-D65A	LRD-325	17/25
			NSX100-MA	25	325	LC1-D80	LRD 3322	17/25
15	26	32	GV4L or GV4LE	50	450	LC1-D65A	LRD-332	23/32
			NSX100-MA	50	450	LC1-D80	LRD-3353	23/32
18,5	32	40	GV4L or GV4LE	50	550	LC1-D65A	LRD-340	30/40
			NSX100-MA	50	550	LC1-D80	LRD-3355	30/40
22	38	40	GV4L or GV4LE	50	550	LC1-D65A	LRD-340	30/40
			NSX100-MA	50	550	LC1-D80	LRD-3355	30/40
30	50	65	GV4L or GV4LE	80	880	LC1-D65A	LRD-365	48/65
		63	NSX100-MA	100	900	LC1-D80	LRD-3359	48/65
37	60	65	GV4L or GV4LE	80	880	LC1-D65A	LRD-365	48/65
		63	NSX100-MA	100	900	LC1-D80	LRD-3359	48/65
45	73	80	GV4L or GV4LE	80	1040	LC1-D80	LRD-33 63	63/80
			NSX100-MA	100	1100	LC1-D80	LRD-3363	63/80
55	88	100	GV4L or GV4LE	115	1380	LC1-D115	LR9-D5367	60/100
						LC1-F115	LR9-F5367	
			NSX100-MA	100	1300	LC1-D115	LR9-D5367	60/100
						LC1-F115	LR9-F5367	
75	120	150	NSX160-MA	150	1950	LC1-D150	LR9-D5369	90/150
						LC1-F150	LR9-F5369	
90	145	150	NSX160-MA	150	1950	LC1-D150	LR9-D5369	90/150
						LC1-F150	LR9-F5369	
110	177	185	NSX250-MA	220	2420	LC1-F185	LR9-F5371	132/220
132	209	265	NSX400-Micrologic 1.3M	320	3500	LC1-F265	LR9-F5371	132/220
160	255	265	NSX400 Micrologic 1.3M	320	3500	LC1-F265	LR9-F7375	200/330
200	318	320	NSX400 Micrologic 1.3M	320	4160	LC1-F330	LR9-F7375	200/330
220	343	400	NSX630-Micrologic 1.3M	500	5500	LC1-F400 (70kA)	LR9-F7379	300/500
						LC1-F500 (130kA)	LR9-F7379	300/500
250	390	500	NSX630-Micrologic 1.3M	500	6500	LC1-F500	LR9-F7379	300/500
300	466	500	NSX630-Micrologic 1.3M	500	6500	LC1-F500	LR9-F7379	300/500
315	490	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LR9-F7381	380/630
355	554	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LR9-F7381	380/630
375	587	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LR9-F7381	380/630
400	627	720	NS800L - Micrologic 5.0 - LR off	800	9600	LC1-F780 or LC1F1000	TC800/1 + LRD-05	500/800
450	695	720	NS800L - Micrologic 5.0 - LR off	800	9600	LC1-F780 or LC1F1000	TC800/1 + LRD-05	500/800
500	772	780	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1F1000	TC800/1 + LRD-05	500/800
560	863	900	NS1000L - Micrologic 5.0 - LR off	1000	10000	LC1F1000	TC1000/1 + LRD-05	600/1000

[1] For long starting (class 20), see the correspondence table for thermal relay.
[2] For 480V Consult us.
[3] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[4] GV4LE only, for GV4 "S" performance with rotary handle, order GV4LE "S" & rotary handle separately.
[5] separate overload Relay, use terminal block LAD7B106.
[6] Ii for Micrologic 5.0 control unit.

Type 2 coordination (IEC 60947-4-1) 440 V

Circuit breakers, and contactors

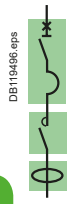
Performance "Iq" (kA): Ue = 440V [2]						
Circuit breaker	**B**	**F**	**N**	**H**	**S**	**L**
GV4 P, PE & PEM 02 - 12	-	-	50	-	70 [5]	-
GV4 P, PE & PEM 25 - 115	20		50	-	70 [5]	-
NSX100/160/250-MA	-	35	42	65	90	130
NSX400/630-MA	-	30	42	65	90	130
NS630bL/NS800L/NS1000L Micrologic 5.0	-	-	-	-	-	130

Starting [1] Standard IEC 60947-4-1				
Trip unit	GV4P, PE or PEM	Micrologic 2.2M / 2.3M	Micrologic 6.2M / 6.3M	Mircologic 5.0
normal (classe)	10	5, 10	5, 10	10
long (classe)	20	20	20, 30 [1]	20

Motors Rated power	Guide values of operational current in amps at :		Circuit breakers				Contactors [2]
P(kW)	440V (A)	Ie max (A)	Type	trip unit	Irth(A)	Irm(A) [4]	Type
0,18	0,55	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0,25	0,77	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0,37	1	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0,55	1,36	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0,75	1,7	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
1,1	2,4	2,5	GV4P, PE or PEM	3,5	1.4/3.5	60	LC1-D32
1,5	3,3	3,5	GV4P, PE or PEM	3,5	1.4/3.5	60	LC1-D32
2,2	4,5	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D65A
3	5,9	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D65A
4	7,7	12,5	GV4P, PE or PEM	12,5	5/12.5	213	LC1-D65A
5,5	10,5	12,5	GV4P, PE or PEM	12,5	5/12.5	213	LC1-D65A
7,5	14	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
		20	NSX100	Micrologic 2.2 / 6.2M	12/20	13Irth	LC1-D80
10	18,2	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
			NSX100	Micrologic 2.2 / 6.2M	15/25	13Irth	LC1-D80
11	20	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
			NSX100	Micrologic 2.2 / 6.2M	15/25	13Irth	LC1-D80
15	26	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
		40	NSX100	Micrologic 2.2 / 6.2M	24/40	13Irth	LC1-D80
18,5	32	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
		40	NSX100	Micrologic 2.2 / 6.2M	24/40	13Irth	LC1-D80
22	38	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
		40	NSX100	Micrologic 2.2 / 6.2M	24/40	13Irth	LC1-D80
30	50	63	GV4P, PE or PEM	80	40/80	1360	LC1-D65A
		80	NSX100	Micrologic 2.2 / 6.2M	48/80	13Irth	LC1-D80
37	60	63	GV4P, PE or PEM	80	40/80	1360	LC1-D65A
		80	NSX100	Micrologic 2.2 / 6.2M	48/80	13Irth	LC1-D80
45	73	80	GV4P, PE or PEM	80	40/80	1360	LC1-D80
			NSX100	Micrologic 2.2 / 6.2M	48/80	13Irth	LC1-D80
55	88	100	GV4P, PE or PEM	115	65/115	1955	LC1-D115 or LC1-F115
			NSX100	Micrologic 2.2 / 6.2M	60/100	13Irth	LC1-D115 or LC1-F115
75	120	150	NSX160	Micrologic 2.2 / 6.2M	90/150	13Irth	LC1-D150 or LC1-F150
90	145	150	NSX160	Micrologic 2.2 / 6.2M	90/150	13Irth	LC1-D150 or LC1-F150
110	177	185	NSX250	Micrologic 2.2 / 6.2M	131/220	13Irth	LC1-F225
132	209	265	NSX400	Micrologic 2.3 / 6.3M	160/320	13Irth	LC1-F265
160	255	265	NSX400	Micrologic 2.3 / 6.3M	160/320	13Irth	LC1-F265
200	318	320	NSX400	Micrologic 2.3 / 6.3M	160/320	13Irth	LC1-F330
220	343	400	NSX630	Micrologic 2.3 / 6.3M	250/500	13Irth	LC1-F400 (70kA)
		500					LC1-F500 (130kA)
250	390	400	NSX630	Micrologic 2.3 / 6.3M	250/500	13Irth	LC1-F500
300	466	500	NSX630	Micrologic 2.3 / 6.3M	250/500	13Irth	LC1-F500
315	490	630	NS800L	Micrologic 5.0	320/800	8000	LC1-F630
355	554	630	NS800L	Micrologic 5.0	320/800	8000	LC1-F630
375	587	630	NS800L	Micrologic 5.0	320/800	8000	LC1-F630
400	627	720	NS800L	Micrologic 5.0	320/800	9600	LC1-F780 or LC1F1000
450	695	720	NS800L	Micrologic 5.0	320/800	9600	LC1-F780 or LC1F1000
500	772	800	NS1000L	Micrologic 5.0	400/1000	10000	LC1-F1000
560	863	900	NS1000L	Micrologic 5.0	400/1000	10000	LC1-F1000

[1] For class 30 the contacteur rating shall be checked according to 30s thermal withstand (F range).
[2] For 480V Consult us.
[3] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[4] Ii for Micrologic 5.0 control unit.
[5] GV4PE only, for GV4 "S" performance with rotary handle, order GV4PE "S" & rotary handle separately.

Type 2 coordination (IEC 60947-4-1) 440 V



Circuit breakers, contactors and thermal relays

Performance "Iq" (kA): Ue = 440V [1]						
Circuit breakers	**B**	**F**	**N**	**H**	**S**	**L**
GV4 L & LE 02 - 12	-	-	50	-	70 [4]	-
GV4 L & LE 25 - 115	20	-	50	-	70 [4]	-
NSX400/630-Micrologic 1.3M	-	30	42	65	90	130
NS630bL/NS800L/NS1000L Micrologic 5.0	-	-	-	-	-	130

Starting [1]: normal LRD class 10 A, LR9 class 10.

Motors Rated power	**Guide values of operational current in amps at :**		**Circuit breakers**			**Contactors** [2]	**Thermal o/l relays Adj. class 10A to 30**		**Class 10**	
P(kW)	**440V (A)**	**Ie max**	**Type**	**rat(A)**	**Irm(A)** [4]	**Type**	**Type**	**Irth** [1]	**Type**	**Irth**
0,18	0,55	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0,4/8	LR9D02	0.4/2
0,25	0,77	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0,4/8	LR9D02	0.4/2
0,37	1	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0,4/8	LR9D02	0.4/2
0,55	1,36	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0,4/8	LR9D02	0.4/2
0,75	1,7	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0,4/8	LR9D02	0.4/2
1,1	2,4	3,5	GV4L or GV4LE	3,5	46	LC1-D40A	LTM R08	0,4/8	LR9D08	1.6/8
1,5	3,3	3,5	GV4L or GV4LE	3,5	46	LC1-D40A	LTM R08	0,4/8	LR9D08	1.6/8
2,2	4,5	7	GV4L or GV4LE	7	91	LC1-D40A	LTM R08	0,4/8	LR9D08	1.6/8
3	5,9	7	GV4L or GV4LE	7	91	LC1-D40A	LTM R08	0,4/8	LR9D08	1.6/8
4	7,7	10	GV4L or GV4LE	12,5	138	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
		12,5	NSX100-MA	12,5	163	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
5,5	10,5	12,5	GV4L or GV4LE	12,5	163	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
			NSX100-MA	12,5	163	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
7,5	14	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
			NSX100-MA	25	325	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
10	18,2	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
			NSX100-MA	25	325	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
11	20	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1,35/27	LR9D32	6.4/32
			NSX100-MA	25	325	LC1-D80	LTM R27	1,35/27	LR9D32	6.4/32
15	26	32	GV4L or GV4LE	50	550	LC1-D65A	LTM R100	5/100	LR9D32	6.4/32
		32	NSX100-MA	50	550	LC1-D80	LTM R100	5/100	LR9D32	6.4/32
18,5	32	40	GV4L or GV4LE	50	550	LC1-D65A	LTM R100	5/100	LR9D110	22/110
		50	NSX100-MA	50	550	LC1-D80	LTM R100	5/100	LR9D110	22/110
22	38	50	GV4L or GV4LE	50	650	LC1-D65A	LTM R100	5/100	LR9D110	22/110
			NSX100-MA	50	550	LC1-D80	LTM R100	5/100	LR9D110	22/110
30	50	65	GV4L or GV4LE	80	880	LC1-D65A	LTM R100	5/100	LR9D110	22/110
		80	NSX100-MA	100	1100	LC1-D80	LTM R100	5/100	LR9D110	22/110
37	60	65	GV4L or GV4LE	80	880	LC1-D65A	LTM R100	5/100	LR9D110	22/110
		80	NSX100-MA	100	1100	LC1-D80	LTM R100	5/100	LR9D110	22/110
45	73	80	GV4L or GV4LE	80	1040	LC1-D80	LTM R100	5/100	LR9D110	22/110
			NSX100-MA	100	1100	LC1-D80	LTM R100	5/100	LR9D110	22/110
55	88	100	GV4L or GV4LE	115	1380	LC1-D115	LTM R100	5/100	LR9D110	22/110
						LC1-F115	LTM R100	5/100	LR9D110	22/110
			NSX100-MA	100	1300	LC1-D115 or F115	LTM R100	5/100	LR9D110	22/110
75	120	150	NSX160-MA	150	1950	LC1-D150 or F150	LTM R08	on CT	LR9D08	on CT
90	145	150	NSX160-MA	150	1950	LC1-D150 or F150	LTM R08	on CT	LR9D08	on CT
110	177	185	NSX250-MA	220	2420	LC1-F185	LTM R08	on CT	LR9D08	on CT
132	209	265	NSX400-Micrologic 1.3M	320	3500	LC1-F265			LR9D08	on CT
160	255	265	NSX400-Micrologic 1.3M	320	3500	LC1-F265	LTM R08	on CT	LR9D08	on CT
200	318	320	NSX400-Micrologic 1.3M	320	4000	LC1-F330	LTM R08	on CT	LR9D08	on CT
220	343	400	NSX630-Micrologic 1.3M	500	5500	LC1-F400 (70kA)	LTM R08	on CT	LR9D08	on CT
		500	NSX630-Micrologic 1.3M	500	6500	LC1-F500 (130kA)	LTM R08	on CT	LR9D08	on CT
250	390	500	NSX630-Micrologic 1.3M	500	6500	LC1-F500	LTM R08	on CT	LR9D08	on CT
300	466	500	NSX630-Micrologic 1.3M	500	6500	LC1-F500	LTM R08	on CT	LR9D08	on CT
315	490	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LTM R08	on CT	LR9D08	on CT
355	554	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LTM R08	on CT	LR9D08	on CT
375	587	630	NS800L - Micrologic 5.0 - LR off	800	8000	LC1-F630	LTM R08	on CT	LR9D08	on CT
400	627	720	NS800L - Micrologic 5.0 - LR off	800	9600	LC1-F780 or LC1-F1000	LTM R08	on CT	LR9D08	on CT
450	695	720	NS800L - Micrologic 5.0 - LR off	800	9600	LC1-F780 or LC1-F1000	LTM R08	on CT	LR9D08	on CT
500	772	800	NS1000L -Micrologic 5.0 - LR off	1000	10000	LC1-F1000	LTM R08	on CT	LR9D08	on CT
560	863	900	NS1000L -Micrologic 5.0 - LR off	1000	10000	LC1-F1000	LTM R08	on CT	LR9D08	on CT

[1] For 480V Consult us.
[2] For installations with a class 30 relay, a derating of 20% must be apply on Circuit breakers and the contacteur rating shall be checked according to 30s thermal withstand (F range).
[3] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[4] GV4LE only, for GV4 "S" performance with rotary handle, order GV4LE "S" & rotary handle separately.

Type 2 coordination (IEC 60947-4-1) 690 V

Circuit breakers, contactors and thermal relays

Performance "Iq" (kA) : Ue = 690 V	
Circuit breaker	**iq**
GV2 < L06 or GV2 ⩾ L07 + LA9 LB920	50 kA
GV2 < P06 or GV2 ⩾ P07 + LA9 LB920	50 kA

Starting [1]: normal LRD class 10 A.

GV2L

Motors			Circuit breaker			Contactors [3]	Thermal o/l relays	
P (kW)	I (A) 690 V	Ie max	Type	Rating (A)	Irm (A)	Type	Type	Irth [1]
0.37	0.64	0.64	GV2-L04	0.63	8	LC1-D09	LRD05	0.63...1
0.55	0.87	1	GV2-L05	1	13	LC1-D09	LRD05	0.63...1
0.75	1.1	1.6	GV2-L06	1.6	21	LC1-D09	LRD06	1...1.6
1.1	1.6	2.5	LA9LB920 [2] + GV2-L07	2.5	33	LC1-D25	LRD07	1.6...2.5
1.5	2.1	2.5	LA9LB920 [2] + GV2-L07	2.5	33	LC1-D25	LRD07	1.6...2.5
2.2	2.8	4	LA9LB920 [2] + GV2-L08	4	52	LC1-D25	LRD08	2.5...4
3	3.8	4	LA9LB920 [2] + GV2-L08	4	52	LC1-D25	LRD08	2.5...4
4	4.9	6	LA9LB920 [2] + GV2-L10	6.3	82	LC1-D25	LRD10	4...6
5.5	6.7	8	LA9LB920 [2] + GV2-L14	10	130	LC1-D25	LRD12	5.5...8
7.5	8.9	10	LA9LB920 [2] + GV2-L14	10	130	LC1-D25	LRD14	7...10
10	11.5	13	LA9LB920 [2] + GV2-L16	14	182	LC1-D25	LRD16	9...13
15	17	18	LA9LB920 [2] + GV2-L20	18	234	LC1-D32	LRD21	12...18
18.5	21	21	LA9LB920 [2] + GV2-L22	25	325	LC1-D40A	LRD325	16...24
22	24	32	LA9LB920 [2] + GV2-L32	32	416	LC1-D40A	LRD332	23...32

GV2P

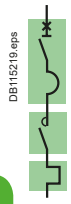
Motors			Circuit breaker			Contactors [3]
P (kW)	I (A) 690 V	Ie max	Type	Irth (A)	Irm (A)	Type
0.37	0.63	0.63	GV2-P04	0.63		LC1-D09
0.55	0.87	1	GV2-P05	1		LC1-D09
0.75	1.1	1.6	GV2-P06	1.6		LC1-D09
1.1	1.6	2.5	LA9LB920 [2] + GV2-P07	2.5		LC1-D25
1.5	2.1	2.5	LA9LB920 [2] + GV2-P07	2.5		LC1-D25
2.2	2.8	4	LA9LB920 [2] + GV2-P08	4		LC1-D25
3	3.8	4	LA9LB920 [2] + GV2-P08	4		LC1-D25
4	4.9	6.3	LA9LB920 [2] + GV2-P10	6.3		LC1-D25
5.5	6.7	10	LA9LB920 [2] + GV2-P14	10		LC1-D25
7.5	8.9	10	LA9LB920 [2] + GV2-P14	10		LC1-D25
10	12	14	LA9LB920 [2] + GV2-P16	14		LC1-D25
11	12.8	14	LA9LB920 [2] + GV2-P16	14		LC1-D32
15	17	18	LA9LB920 [2] + GV2-P20	18		LC1-D32
18.5	21	23	LA9LB920 [2] + GV2-P21	23		LC1-D32
22	24	32	LA9LB920 [2] + GV2-P32	32		LC1-D40A

Starting: adjustable

Motors			Circuit breaker			Contactors [3]	Thermal o/l relays	
P (kW)	I (A) 690 V	Ie max	Type	Rating (A)	Irm (A)	Type	Type	Irth [1]
0.37	0.64	0.64	GV2-L04	0.63	8	LC1-D09	LTM R08	0.4/8
0.55	0.87	1	GV2-L05	1	13	LC1-D09	LTM R08	0.4/8
0.75	1.1	1.6	GV2-L06	1.6	21	LC1-D09	LTM R08	0.4/8
1.1	1.6	2.5	LA9LB920 [2] + GV2-L07	2.5	33	LC1-D25	LTM R08	0.4/8
1.5	2.1	2.5	LA9LB920 [2] + GV2-L07	2.5	33	LC1-D25	LTM R08	0.4/8
2.2	2.8	4	LA9LB920 [2] + GV2-L08	4	52	LC1-D25	LTM R08	0.4/8
3	3.8	4	LA9LB920 [2] + GV2-L08	4	52	LC1-D25	LTM R08	0.4/8
4	4.9	6	LA9LB920 [2] + GV2-L10	6.3	82	LC1-D25	LTM R08	0.4/8
5.5	6.7	8	LA9LB920 [2] + GV2-L14	10	130	LC1-D25	LTM R08	0.4/8
7.5	8.9	10	LA9LB920 [2] + GV2-L14	10	130	LC1-D25	LTM R27	1.35/27
11	12.8	14	LA9LB920 [2] + GV2-L16	14	182	LC1-D25	LTM R27	1.35/27
15	17	18	LA9LB920 [2] + GV2-L20	18	234	LC1-D32	LTM R27	1.35/27
18.5	21	21	LA9LB920 [2] + GV2-L22	25	325	LC1-D40A	LTM R27	1.35/27
22	24	27	LA9LB920 [2] + GV2-L32	32	416	LC1-D40A	LTM R27	1.35/27

[1] For long starting (class 20), see the correspondence table for thermal relay.
[2] One LA9LB920 limitor (on the supply side of the breaker) can be used for several starter up to 32 A.
Connections between limitor and GV2 breaker shall be done in such a way to minimizae the risk of short circuit.
[3] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.

Type 2 coordination (IEC 60947-4-1) 690 V



Circuit breakers, contactors and thermal relays

Performance "Iq" (kA) : Ue = 690 V	
Circuit breaker	**iq**
LUALB1	70 kA
LA9LB920	35 kA

Starting : adjustable.

Motors			TeSys U		Limitor	Control unit	
P (kW)	**I (A) 690V**	**Ie max**	**Type** [2]	**Im**		**Type** [1]	**Irth**
0.37	0.64	0.64	LUB12	14.2 In	LUALB1	LUC●01	0.35...1.4
			LUB12	14.2 In	LA9LB920	LUC●01	0.35...1.4
0.55	0.87	1	LUB12	14.2 In	LUALB1	LUC●01	0.35...1.4
			LUB12	14.2 In	LA9LB920	LUC●01	0.35...1.4
0.75	1.1	1.6	LUB12	14.2 In	LUALB1	LUC●01	0.35...1.4
			LUB12	14.2 In	LA9LB920	LUC●01	0.35...1.4
1.1	1.6	2.5	LUB12	14.2 In	LUALB1	LUC●05	1.25...5
			LUB12	14.2 In	LA9LB920	LUC●05	1.25...5
1.5	2.1	2.5	LUB12	14.2 In	LUALB1	LUC●05	1.25...5
			LUB12	14.2 In	LA9LB920	LUC●05	1.25...5
2.2	2.8	4	LUB12	14.2 In	LUALB1	LUC●05	1.25...5
			LUB12	14.2 In	LA9LB920	LUC●05	1.25...5
3	3.8	4	LUB12	14.2 In	LUALB1	LUC●05	1.25...5
			LUB12	14.2 In	LUALB1	LUC●05	1.25...5
4	4.9	6	LUB12	14.2 In	LUALB1	LUC●12	3...12
			LUB12	14.2 In	LA9LB920	LUC●12	3...12
5.5	6.7	8	LUB12	14.2 In	LUALB1	LUC●12	3...12
			LUB12	14.2 In	LA9LB920	LUC●12	3...12
7.5	8.9	10	LUB12	14.2 In	LUALB1	LUC●12	3...12
			LUB12	14.2 In	LA9LB920	LUC●12	3...12
11	12.8	18	LUB32	14.2 In	LUALB1	LUC●18	4.5...18
			LUB32	14.2 In	LA9LB920	LUC●18	4.5...18
15	17	18	LUB32	14.2 In	LUALB1	LUC●18	4.5...18
			LUB32	14.2 In	LA9LB920	LUC●18	4.5...18
18.5	21	25	LUB32	14.2 In	LUALB1	LUC●32	8...32
			LUB32	14.2 In	LA9LB920	LUC●32	8...32

[1] to be replaced by A, B, D or CM according to protection and monitoring needs.
[2] For Reversing replace LUB12 by LU2B12 and LUB32 by LU2B32.

Type 2 coordination (IEC 60947-4-1) 690 V

Magnetic circuit breaker (MA)

Contactor

Thermal relay

Circuit breakers, contactors and thermal relays

Performance "Iq" (kA) : Ue = 690 V			
Circuit breakers	**HB1**	**HB2**	**LB**
NSX100/250 MA	75 kA	100 kA	-
NSX400/630 Micrologic 1.3M	75 kA	100 kA	-
NS800 Micrologic 5.0x	-	-	75 kA

Starting [1]: normal LRD class 10 A, LR9 class 10.

Motors Rated power	**Guide values of operational current in amps at :**		**Circuit breakers**			**Contactors** [2]	**Thermal o/l relays** [1]	
P(kW)	**690V (A)**	**Ie max**	**Type**	**rat(A)**	**Irm(A)** [3]	**Type**	**Type**	**Irth**
0,37	0,64	1	NSX100-MA	12,5	75	LC1-D80	CT 1A + LRD05	0.63..1
0,55	0,87	1	NSX100-MA	12,5	75	LC1-D80	CT 1A + LRD05	0.63..1
0,75	1,1	1,5	NSX100-MA	12,5	75	LC1-D80	CT 1,5A + LRD05	0,95..1,5
1,1	1,6	2,5	NSX100-MA	12,5	75	LC1-D80	CT 2A + LRD05	1,26..2
1,5	2,1	2,5	NSX100-MA	12,5	75	LC1-D80	CT 2,5A + LRD05	1,6..2,5
2,2	2,8	4	NSX100-MA	12,5	75	LC1-D80	CT 4A + LRD05	2.5..4
3	3,8	4	NSX100-MA	12,5	75	LC1-D80	CT 4A + LRD05	2.5..4
4	4,9	6	NSX100-MA	12,5	112	LC1-D80	CT 6A + LRD05	3,8..6
5,5	6,7	7,5	NSX100-MA	12,5	112	LC1-D80	CT 7,5A + LRD05	4,7..7,5
7,5	8,9	12,5	NSX100-MA	12,5	162	LC1-D80	CT 10A + LRD05	6,3..10
10	11,5	12,5	NSX100-MA	12,5	162	LC1-D80	CT 12,5A + LRD05	7,8..12,5
11	12,8	20	NSX100-MA	25	162	LC1-D80	CT 20A + LRD05	12,6..20
15	17	20	NSX100-MA	25	300	LC1-D80	CT 20A + LRD05	12,6..20
18,5	21	25	NSX100-MA	25	325	LC1-D80	CT 24A + LRD05	15.24
22	24	25	NSX100-MA	25	325	LC1-D80	CT 30A + LRD05	19..30
30	32	40	NSX100-MA	50	550	LC1-D150	CT 40A + LRD05	25..40
37	39	50	NSX100-MA	50	650	LC1-D150	CT 50A + LRD05	31,5..50
45	47	50	NSX100-MA	50	650	LC1-D150	CT 50A + LRD05	31,5..50
55	57	63	NSX100-MA	100	900	LC1-D150	LR9-F53 63 or CT 50A + LRD05	48..80
						LC1-F115	LR9-F53 63 or CT 50A + LRD05	48..80
75	77	80	NSX100-MA	100	1100	LC1-D150	LR9-F53 63 or CT 100A + LRD05	48..80
						LC1-F115	LR9-F53 63 or CT 100A + LRD05	48..80
90	93	100	NSX250-MA	150	1350	LC1-F150	LR9-F53 67 or CT 100A + LRD05	60..100
110	113	115	NSX250-MA	150	1500	LC1-F185	LR9-F53 69 or CT 125A + LRD 05	90..150
132	134	150	NSX250-MA	150	1950	LC1-F330	LR9-F53 71 or CT 160A + LRD05	132..220
160	162	220	NSX250-MA	220	2860	LC1-F330	LR9-F53 71 or CT 200A + LRD05	132..220
200	203	220	NSX250-MA	220	2860	LC1-F330	LR9-F53 71 or CT 250A + LRD05	132..220
220	220	225	NSX400-Micrologic 1.3M	320	3200	LC1-F400 45kA	LR9-F73 75 or CT 320A + LRD05	200..330
						LC1-F500 100kA	LR9-F73 75 or CT 320A + LRD05	200..330
250	250	280	NSX400-Micrologic 1.3M	320	3840	LC1-F400 45kA	LR9-F73 75 or CT 320A + LRD05	200..330
						LC1-F500 100kA	LR9-F73 75 or CT 320A + LRD05	200..330
315	313	330	NSX630-Micrologic 1.3M	500	4500	LC1-F500	LR9-F73 75 or CT 320A + LRD05	200..330
335	335	340	NSX630-Micrologic 1.3M	500	4500	LC1-F500	LR9-F73 79 or CT 400A+LRD05	300..500
355	354	460	NSX630-Micrologic 1.3M	500	6000	LC1-F630	LR9-F73 79 or CT 400A+LRD05	300..500
375	374	460	NSX630-Micrologic 1.3M	500	6000	LC1-F630	LR9-F73 79 or CT 400A+LRD05	300..500
400	400	460	NSX630-Micrologic 1.3M	500	6000	LC1-F630	LR9-F73 81 or CT 500A+LRD05	380..630
450	455	460	NSX630-Micrologic 1.3M	500	6000	LC1-F630	LR9-F73 81 or CT 500A+LRD05	380..630
475	475	480	NS800LB - Micrologic 5.0 LR Off	800	6400	LC1-F780	LR9-F73 81 or CT 500A+LRD05	380..630

[1] CT: Current transformer for motor thermal relay, for instance S11 range from RS ISOLSEC.
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for Micrologic 5.0 control unit.

Type 2 coordination (IEC 60947-4-1) 690 V

Circuit breakers, contactors

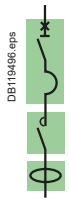
Performance "Iq" (kA) : Ue = 690 V			
Circuit breakers	**HB1**	**HB2**	**LB**
LA9 LB920 + NS80H MA	-	-	-
NSX100/160/250 Micrologic 2.2 M/6.2 M	75 kA	100 kA	-
NSX400/630 Micrologic 2.2 M/6.2 M	75 kA	100 kA	-
NS800 Micrologic 5.0x	-	-	75 kA

Starting	**Standard IEC 60947-4-1**		
Micrologic	2.2 M/2.3 M	6.2 M/6.3 M	5.0
Normal (class)	5, 10	5, 10	10
Long (class)	20	20, 30	20

Motors			**Circuit breakers**				**Contactors** [1]
P (kW)	**I (A) 690 V**	**Ie max**	**Type**	**Trip unit**	**Irth (A)**	**Irm (A)** [2]	**Type**
10	11.6	25	NSX100	Micrologic 2.2 M or 6.2 M	12/25	13 Irth	LC1 D80
11	12.8	25	NSX100	Micrologic 2.2 M or 6.2 M	12/25	13 Irth	LC1 D80
15	17	25	NSX100	Micrologic 2.2 M or 6.2 M	12/25	13 Irth	LC1 D80
18.5	22	25	NSX100	Micrologic 2.2 M or 6.2 M	12/25	13 Irth	LC1 D80
22	24	25	NSX100	Micrologic 2.2 M or 6.2 M	12/25	13 Irth	LC1 D80
30	32	50	NSX100	Micrologic 2.2 M or 6.2 M	25/50	13 Irth	LC1 D150 / F115
37	39	50	NSX100	Micrologic 2.2 M or 6.2 M	25/50	13 Irth	LC1 D150 / F115
45	47	50	NSX100	Micrologic 2.2 M or 6.2 M	25/50	13 Irth	LC1 D150 / F115
55	57	63	NSX100	Micrologic 2.2 M or 6.2 M	50/100	13 Irth	LC1 D150 / F115
75	77	80	NSX100	Micrologic 2.2 M or 6.2 M	50/100	13 Irth	LC1 D150 / F115
90	93	100	NSX250	Micrologic 2.2 M or 6.2 M	70/150	13 Irth	LC1 F150
110	113	125	NSX250	Micrologic 2.2 M or 6.2 M	70/150	13 Irth	LC1 F185
132	134	150	NSX250	Micrologic 2.2 M or 6.2 M	70/150	13 Irth	LC1 F330
160	162	220	NSX250	Micrologic 2.2 M or 6.2 M	100/220	13 Irth	LC1 F330
200	203	220	NSX250	Micrologic 2.3 M or 6.3 M	100/220	13 Irth	LC1 F330
220	223	280	NSX400	Micrologic 2.3 M or 6.3 M	160/320	13 Irth	LC1 F400 (45 kA) LC1 F500 (100 kA)
250	250	280	NSX400	Micrologic 2.3 M or 6.3 M	160/320	13 Irth	LC1 F400 (45 kA) LC1 F500 (100 kA)
315	313	340	NSX630	Micrologic 2.3 M or 6.3 M	250/500	13 Irth	LC1 F500
335	335	340	NSX630	Micrologic 2.3 M or 6.3 M	250/500	13 Irth	LC1 F500
355	354	460	NSX630	Micrologic 2.3 M or 6.3 M	250/500	13 Irth	LC1 F630
375	374	460	NSX630	Micrologic 2.3 M or 6.3 M	250/500	13 Irth	LC1 F630
400	400	460	NSX630	Micrologic 2.3 M or 6.3 M	250/500	13 Irth	LC1 F630
450	455	460	NSX630	Micrologic 2.3 M or 6.3 M	250/500	13 Irth	LC1 F630
475	475	480	NS800LB	Micrologic 5.0	320/800	13 Irth	LC1 F780

[1] Reversers: replace LC1 with LC2; start-delta starter: replace LC1 with LC3.
[2] Ii for Micrologic 5.0 control unit.

Type 2 coordination (IEC 60947-4-1) 690 V



Magnetic circuit breaker (MA)

Contactor

Thermal relay on CT

Circuit breakers, contactors

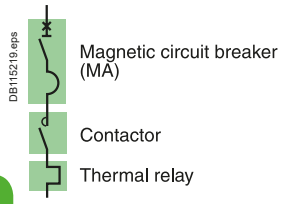
Performance "Iq" (kA): Ue = 690 V			
Circuit breakers	**HB1**	**HB2**	**LB**
NSX100/250 MA	75 kA	100 kA	-
NSX400/630 Micrologic 1.3 M	75 kA	100 kA	-
NS800 Micrologic 5.0x	-	-	75 kA

Starting: adjustable.

Motors			**Circuit breakers**			**Contactors** [2]	**Thermal o/l relays**	
P (kW)	**I (A) 690 V**	**Ie max**	**Type**	**Rating (A)**	**Irm (A)**	**Type**	**Type**	**Irth** [1]
0.37	0.64	8	NSX100-MA	12.5	75	LC1-D80	LTM R08	0.4/8
0.55	0.87	8	NSX100-MA	12.5	75	LC1-D80	LTM R08	0.4/8
0.75	1.1	8	NSX100-MA	12.5	75	LC1-D80	LTM R08	0.4/8
1.1	1.6	8	NSX100-MA	12.5	75	LC1-D80	LTM R08	0.4/8
1.5	2.1	8	NSX100-MA	12.5	75	LC1-D80	LTM R08	0.4/8
2.2	2.8	8	NSX100-MA	12.5	75	LC1-D80	LTM R08	0.4/8
3	3.8	8	NSX100-MA	12.5	75	LC1-D80	LTM R08	0.4/8
4	4.9	8	NSX100-MA	12.5	112	LC1-D80	LTM R08	0.4/8
5.5	6.7	8	NSX100-MA	12.5	112	LC1-D80	LTM R08	0.4/8
7.5	8.9	12.5	NSX100-MA	12.5	162	LC1-D80	LTM R27	1.35/27
11	12.8	25	NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
15	17	25	NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
18.5	21	25	NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
22	24	25	NSX100-MA	25	400	LC1-D80	LTM R27	1.35/27
30	32	50	NSX100-MA	50	650	LC1-D150/F115	LTM R100	5/100
37	39	50	NSX100-MA	50	650	LC1-D150/F115	LTM R100	5/100
45	47	50	NSX100-MA	50	650	LC1-D150/F115	LTM R100	5/100
55	57	63	NSX100-MA	100	1100	LC1-D150/F115	LTM R100	5/100
75	77	80	NSX100-MA	100	1100	LC1-D150/F115	LTM R100	5/100
90	93	100	NSX250-MA	150	1350	LC1-F150	LTM R100	5/100
110	113	115	NSX250-MA	150	1500	LC1-F185	LTM R08	on TC
132	134	150	NSX250-MA	150	1950	LC1-F330	LTM R08	on TC
160	162	220	NSX250-MA	220	2420	LC1-F330	LTM R08	on TC
200	203	220	NSX250-MA	220	2420	LC1-F330	LTM R08	on TC
220	223	225	NSX400-Micrologic 1.3M	320	3200	LC1-F400 45 kA LC1-F500 100 kA	LTM R08	on TC
250	250	280	NSX400-Micrologic 1.3M	320	3840	LC1-F400 45 kA LC1-F500 100 kA	LTM R08	on TC
315	313	340	NSX630-Micrologic 1.3M	500	4500	LC1-F500	LTM R08	on TC
335	335	340	NSX630-Micrologic 1.3M	500	4500	LC1-F500	LTM R08	on TC
355	354	460	NSX630-Micrologic 1.3M	500	6000	LC1-F630	LTM R08	on TC
375	374	460	NSX630-Micrologic 1.3M	500	6000	LC1-F630	LTM R08	on TC
400	400	460	NSX630-Micrologic 1.3M	500	6000	LC1-F630	LTM R08	on TC
450	455	460	NSX630-Micrologic 1.3M	500	6000	LC1-F630	LTM R08	on TC
475	475	480	NS800LB Micrologic 5 LR Off		6400	LC1-F780	LTM R08	on TC

[1] Check contactor and circuit breaker thermal withstand for installations with a class 30 relay.
[2] Reversers: replace LC1 with LC2; start-delta starter: replace LC1 with LC3.

Type 1 coordination (IEC 60947-4-1)



GV4L circuit breaker, contactor and Overload relay

Direct-on-line starting

Reverser

"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.

Starting [1]: Direct on line normal start Class 10A/10.

Motors 220/230 V		380 V		415 V		440 V		500/525 V		660/690 V		Circuit breakers		Contactors [3]	Thermal relays [1]	
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	cal (A)	Type	Type	Irth (A)
		0,37	1,2	0,37	1,1	0,37	1	0,55	1,2	0,75	1,2	GV4L or LE	2	LC1-D09	LRD 06	1/1,6
		0,55	1,6	0,55	1,5	0,55	1,4	0,75	1,5	1	1,5	GV4L or LE	2	LC1-D09	LRD 06	1/1,6
0,37	1,8	0,75	2	0,75	1,8	0,75	1,7					GV4L or LE	2	LC1-D09	LRD 07	1,6/2,5
						1,1	2,4	1,1	2	1,5	2	GV4L or LE	3,5	LC1-D09	LRD 07	1,6/2,5
0,55	2,8	1,1	2,8	1,1	2,6			1,5	2,6	2,2	2,8	GV4L or LE	3,5	LC1-D09	LRD 08	2,5/4
		1,5	3,8	1,5	3,5	1,5	3,3			3	3,8	GV4L or LE	7	LC1-D09	LRD 08	2,5/4
1,1	4,4	2,2	5,2	2,2	4,7	2,2	4,5	3	5	4	4,9	GV4L or LE	7	LC1-D09	LRD 10	4/6
1,5	6,1	3	6,6	3	6,5	3	5,8	4	6,5	5,5	6,6	GV4L or LE	7	LC1-D09	LRD 12	5,5/8
2,2	8,7	4	8,5	4	8,2	4	7,9	5,5	9			GV4L or LE	12,5	LC1-D09	LRD 14	7/10
										7,5	8,9	GV4L or LE	12,5	LC1-D12	LRD 14	7/10
3	11,5	5,5	11,5	5,5	11,1	5,5	10,5	7,5	12			GV4L or LE	12,5	LC1-D12	LRD 16	9/13
4	14,5	7,5	16	7,5	15	7,5	14	9	14			GV4L or LE	25	LC1-D18	LRD 21	12/18
				9	17	9	16,9	10	15			GV4L or LE	25	LC1-D18	LRD 21	12/18
										10	11,5	GV4L or LE	25	LC1-D18	LRD 16	9/13
5,5	20	11	23	11	21	11	20	11	18,4			GV4L or LE	25	LC1-D25	LRD 22	16/24
										15	17	GV4L or LE	25	LC1-D25	LRD 21	12/18
										18,5	21,3	GV4L or LE	25	LC1-D32	LRD 22	16/24
7,5	28	15	30	15	28	15	26,5	18,5	28,5			GV4L or LE	50	LC1-D32	LRD 32	23/32
								22	33	30	34,6	GV4L or LE	50	LC1-D40A	LRD 340	30/40
11	39	18,5	37	18,5	35	22	37					GV4L or LE	50	LC1-D40A	LRD 350	37/50
		22	44	22	40			30	45	33	39	GV4L or LE	50	LC1-D50A	LRD 350	37/50
15	52					30	50					GV4L or LE	50	LC1-D65A	LRD 365	48/65
										37	42	GV4L or LE	50	LC1-D65A	LRD 350	37/50
18,5	64	30	58	30	53	37	60	37	55			GV4L or LE	80	LC1-D65A	LRD 365	48/65
				37	64							GV4L or LE	80	LC1-D80	LRD 3561	55/70
										45	47	GV4L or LE	80	LC1-D80	LRD 3561	55/70
22	75	37	69	45	77	45	73	55	80			GV4L or LE	80	LC1-D80	LRD 3363	63/80
		45	80									GV4L or LE	115	LC1-D95	LRD 3365	80/104
										55	57	GV4L or LE	80	LC1-D115	LRD 3561	55/70
										75	77	GV4L or LE	80	LC1-D115	LR9D5367	60/100
30	95	55	97	55	93	55	90	75	106	90	93	GV4L or LE	115	LC1-D115	LR9D5369	90/150

[1] For long starting (class 20), see the correspondence table for thermal relay.
[2] For 480V application consult us.
[3] Reversers : replace LC1 with LC2.

Type 1 coordination (IEC 60947-4-1)

NSX100 circuit breakers, contactors and thermal relays

Direct-on-line starting

Reverser

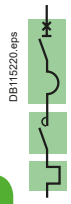
"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.

Starting [1]: normal class 10A/10.

Motors 220/230 V		380 V		415 V		440 V [2]		500/525 V		660/690 V		Circuit breakers		Contactors [3]	Thermal relays [1]	
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	cal (A)	Type	Type	Irth (A)
		0,37	1,2	0,37	1,1	0,37	1	0,55	1,2	0,75	1,2	NSX100B/F/N/H/S/L MA	2,5	LC1-D09	LRD 06	1/1,6
		0,55	1,6	0,55	1,5	0,55	1,4	0,75	1,5	1	1,5	NSX100B/F/N/H/S/L MA	2,5	LC1-D09	LRD 06	1/1,6
0,37	1,8	0,75	2	0,75	1,8	0,75	1,7					NSX100B/F/N/H/S/L MA	2,5	LC1-D09	LRD 07	1,6/2,5
						1,1	2,4	1,1	2	1,5	2	NSX100B/F/N/H/S/L MA	2,5	LC1-D09	LRD 07	1,6/2,5
0,55	2,8	1,1	2,8	1,1	2,5			1,5	2,6	2,2	2,8	NSX100B/F/N/H/S/L MA	6,3	LC1-D09	LRD 08	2,5/4
		1,5	3,7	1,5	3,5	1,5	3,1			3	3,8	NSX100B/F/N/H/S/L MA	6,3	LC1-D09	LRD 08	2,5/4
1,1	4,4	2,2	5	2,2	4,8	2,2	4,5	3	5	4	4,9	NSX100B/F/N/H/S/L MA	6,3	LC1-D09	LRD 10	4/6
1,5	6,1	3	6,6	3	6,5	3	5,8	4	6,5	5,5	6,6	NSX100B/F/N/H/S/L MA	12,5	LC1-D09	LRD 12	5,5/8
2,2	8,7	4	8,5	4	8,2	4	7,9	5,5	9			NSX100B/F/N/H/S/L MA	12,5	LC1-D09	LRD 14	7/10
										7,5	8,9	NSX100B/F/N/H/S/L MA	12,5	LC1-D12	LRD 14	7/10
										7,5	8,9	NSX100HB1/HB2 MA	12,5	LC1-D40A	LRD 14	7/10
3	11,5	5,5	11,5	5,5	11	5,5	10,4	7,5	12			NSX100B/F/N/H/S/L MA	12,5	LC1-D12	LRD 16	9/13
4	14,5	7,5	15,5	7,5	14	7,5	13,7	9	14			NSX100B/F/N/H/S/L MA	25	LC1-D18	LRD 21	12/18
				9	17	9	16,9	10	15			NSX100B/F/N/H/S/L MA	25	LC1-D18	LRD 21	12/18
										10	11,5	NSX100B/F/N/H/S/L MA	25	LC1-D18	LRD 16	9/13
										10	11,5	NSX100HB1/HB2 MA	25	LC1-D40A	LRD313	9/13
5,5	20	11	22	11	21	11	20,1	11	18,4			NSX100B/F/N/H/S/L MA	25	LC1-D25	LRD 22	17/25
										15	17	NSX100B/F/N/H/S/L MA	25	LC1-D25	LRD 21	12/18
										18,5	21,3	NSX100B/F/N/H/S/L MA	25	LC1-D32	LRD 22	17/25
										18,5	21,3	NSX100HB1/HB2 MA	25	LC1-D40A	LRD325	17/25
7,5	28	15	30	15	28	15	26,5	18,5	28,5			NSX100B/F/N/H/S/L MA	50	LC1-D32	LRD 32	23/32
								22	33	30	34,6	NSX100B/F/N/H/S/L MA	50	LC1-D40A	LRD340	30/40
										30	34,6	NSX100HB1/HB2 MA	50	LC1-D80	LRD3355	30/40
11	39	18,5	37	22	40	22	39					NSX100B/F/N/H/S/L MA	50	LC1-D40A	LRD350	37/50
		22	44	25	47			30	45			NSX100B/F/N/H/S/L MA	50	LC1-D50A	LRD350	37/50
										37	42	NSX100B/F/N/H/S/L MA	50	LC1-D65A	LRD350	37/50
										37	42	NSX100HB1/HB2 MA	50	LC1-D80	LRD3357	37/50
15	52	30	59	30	55	30	51,5					NSX100B/F/N/H/S/L MA	100	LC1-D65A	LRD365	48/65
18,5	64					37	64	37	55							
										45	49	NSX100B/F/N/H/S/L/ HB1/HB2 MA	100	LC1-D80	LRD3357	37/50
22	75	37	72	37	72	45	76	55	80			NSX100B/F/N/H/S/L MA	100	LC1-D80	LRD3363	63/80
				45	80											
25	85	45	85									NSX100B/F/N/H/S/L MA	100	LC1-D95	LRD3365	80/104
										55	57	NSX100B/F/N/H/S/L/ HB1/HB2 MA	100	LC1-D115	LRD3561	55/70
30	100			55	100	55	96			75	77	NSX100B/F/N/H/S/L/ HB1/HB2 MA	100	LC1-D115	LR9-D53 67	60/100

[1] For long starting (class 20), see the correspondence table for thermal relay.
[2] For 480V application consult us.
[3] Reversers : replace LC1 with LC2.

Type 1 coordination (IEC 60947-4-1)



NSX160 to NS1250 circuit breaker, contactor and thermal relay

Direct-on-line starting

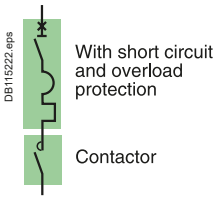
Reverser

"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.
Starting [1]: normal, class 10.

Motors 220/230 V		380 V		415 V		440 V [2]		500/525 V		660/690 V		Circuit breakers	Contactors [3]		Thermal relays [1]	
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	cal (A)	Type	Type	Irth (A)
37 45	125 150	55 75	105 140	75	135	75	124	75 90	110 130	90	100	NSX160B/F/N/H/S/L MA NSX250HB1/HB2 MA	150	LC1D-150 LC1F-150	LR9-D53 69 LR9-F53 69	90/150 100/160
55	180	90	170	90	160	90 110	156 180	110	156	110	120	NSX 250B/F/N/H/S/L/HB1/HB2 MA	220	LC1F-185	LR9-F53 71	132/220
		110	210	110	200	132	215					NSX 250B/F/N/H/S/L/HB1/HB2 MA	220	LC1F-225	LR9-F53 71	132/220
								132	190	132 160	140 175	NSX 250B/F/N/H/S/L/HB1/HB2 MA	220	LC1F-265	LR9-F53 71	132/220
75	250	132	250	132	230	160	256	160	228			NSX400F/N/H/S/L/HB1/HB2 Micrologic 1.3M	320	LC1F-265	LR9-F73 75	200/330
90	312	160	300	160	270			200	281	200 220	220 240	NSX400F/N/H/S/L/HB1/HB2 Micrologic 1.3M	320	LC1F-330	LR9-F73 75	200/330
110	360	200	380	220	380	220	360	220	310			NSX630F/N/H/S/L/HB1/HB2 Micrologic 1.3M	500	LC1F-400	LR9-F73 79	300/500
										250	270	NSX630F/N/H/S/L/HB1/HB2 Micrologic 1.3M	500	LC1F-400	LR9-F73 75	200/330
		220	420			250	401			335	335	NSX630F/N/H/S/L/HB1/HB2 Micrologic 1.3M	500	LC1F-500	LR9-F73 79	300/500
150	480	250	480	250	430			315 335	445 460			NSX630F/N/H/S/L/HB1/HB2 Micrologic 1.3M	500	LC1F-500	LR9-F73 79	300/500
						300	480			375 450	400 480	NSX630F/N/H/S/L/HB1/HB2 Micrologic 1.3M	500	LC1-F630	LR9-F73 81	380/630
160	520	300	570	300	510	335	540	355 375 400	500 530 570			NS800N/H Micrologic 5.0 - LR off NS1000L Micrologic 5.0 - LR off	800 1000	LC1-F630	LR9-F73 81	380/630
200	630	335	630	335	580	375	590	450	630			NS800N/H Micrologic 5.0 - LR off NS1000L Micrologic 5.0 - LR off	800 1000	LC1-F630	LR9-F73 81	380/630
220	700	375	700	375	650	400	650					NS800N/H Micrologic 5.0 - LR off NS1000L Micrologic 5.0 - LR off	800 1000	LC1-F800	LR2-F83 83	500/800
		400	750	400	690	450	720					NS800N/H Micrologic 5.0 - LR off NS1000L Micrologic 5.0 - LR off	800 1000	LC1-F800 LC1-BL33	LR2-F83 83	500/800
										500 560	530 580	NS800N/H Micrologic 5.0 - LR off NS1000L Micrologic 5.0 - LR off	800 1000	LC1-BL33	LR2-F83 83	500/800
250	800	450	800	450	750			500 560	700 760			NS1000N/H Micrologic 5.0 - LR off	1000	LC1-BM33	LR2-F83 83	500/800
		500	900	500	830	500 560	800 900	600	830			NS1000N/H Micrologic 5.0 - LR off	1000	LC1-BM33	LR2-F83 85	630/1000
300	970	560 600	1000 1100	560 600	920 1000	600 670	960 1080	670 750	920 1020			NS1250N/H Micrologic 5.0 - LR off	1250	LC1-BP33	LR2-F83 85	630/1000

[1] For long starting (class 20), see the correspondence table for thermal relay.
[2] For 480V application consult us.
[3] Reversers : replace LC1 with LC2.

Type 1 coordination (IEC 60947-4-1)



GV4P circuit breaker and contactor

Direct-on-line starting

Reverser

"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.

Starting [1]: Direct on line normal start Class 10A/10.

Motors 220/230 V		380 V		415 V		440 V		500/525 V		660/690 V		Circuit breakers		Contactors [3]	Thermal relay [1]	
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	cal (A)	Type	Type	Irth (A)
		0,37	1,2	0,37	1,1	0,37	1	0,55	1,2	0,75	1,2	GV4P, PE or PEM	2	LC1-D09		0,8/2
		0,55	1,6	0,55	1,5	0,55	1,4	0,75	1,5	1	1,5	GV4P, PE or PEM	2	LC1-D09		0,8/2
0,37	1,8	0,75	2	0,75	1,8	0,75	1,7					GV4P, PE or PEM	2	LC1-D09		0,8/2
						1,1	2,4	1,1	2	1,5	2	GV4P, PE or PEM	3,5	LC1-D09		1,4/3,5
0,55	2,8	1,1	2,8	1,1	2,6			1,5	2,6	2,2	2,8	GV4P, PE or PEM	3,5	LC1-D09		1,4/3,5
		1,5	3,8	1,5	3,5	1,5	3,3			3	3,8	GV4P, PE or PEM	7	LC1-D09		2,9/7
1,1	4,4	2,2	5,2	2,2	4,7	2,2	4,5	3	5	4	4,9	GV4P, PE or PEM	7	LC1-D09		2,9/7
1,5	6,1	3	6,6	3	6,5	3	5,8	4	6,5	5,5	6,6	GV4P, PE or PEM	7	LC1-D09		2,9/7
2,2	8,7	4	8,5	4	8,2	4	7,9	5,5	9			GV4P, PE or PEM	12,5	LC1-D25		5/12,5
										7,5	8,9	GV4P, PE or PEM	12,5	LC1-D25		5/12,5
3	11,5	5,5	11,5	5,5	11,1	5,5	10,5	7,5	12			GV4P, PE or PEM	12,5	LC1-D25		5/12,5
4	14,5	7,5	16	7,5	15	7,5	14	9	14			GV4P, PE or PEM	25	LC1-D25		10/25
				9	17	9	16,9	10	15			GV4P, PE or PEM	25	LC1-D25		10/25
										10	11,5	GV4P, PE or PEM	25	LC1-D25		10/25
5,5	20	11	23	11	21	11	20	11	18,4			GV4P, PE or PEM	25	LC1-D25		10/25
										15	17	GV4P, PE or PEM	25	LC1-D25		10/25
7,5	28	15	30	15	28	15	26,5	18,5	28,5			GV4P, PE or PEM	50	LC1-D40A		20/50
								22	33	30	34,6	GV4P, PE or PEM	50	LC1-D40A		20/50
11	39	18,5	37	18,5	35	22	37					GV4P, PE or PEM	50	LC1-D40A		20/50
		22	44	22	40			30	45	33	39	GV4P, PE or PEM	50	LC1-D50A		20/50
15	52					30	50					GV4P, PE or PEM	50	LC1-D65A		20/50
										37	42	GV4P, PE or PEM	50	LC1-D65A		20/50
18,5	64	30	58	30	53	37	60	37	55			GV4P, PE or PEM	80	LC1-D65A		40/80
				37	64							GV4P, PE or PEM	80	LC1-D65A		40/80
										45	47	GV4P, PE or PEM	80	LC1-D80		40/80
22	75	37	69	45	77	45	73	55	80			GV4P, PE or PEM	80	LC1-D80		40/80
		45	80									GV4P, PE or PEM	115	LC1-D95		65/115
										55	57	GV4P, PE or PEM	80	LC1-D115		40/80
										75	77	GV4P, PE or PEM	80	LC1-D115		40/80
30	95	55	97	55	93	55	90	75	106	90	93	GV4P, PE or PEM	115	LC1-D115		65/115

[1] For long starting (class 20), see the correspondence table for thermal relay.
[2] For 480V application consult us.
[3] Reversers : replace LC1 with LC2.

Type 1 coordination (IEC 60947-4-1)

NSX100 to NS1250 circuit breakers

Direct-on-line starting

Reverser

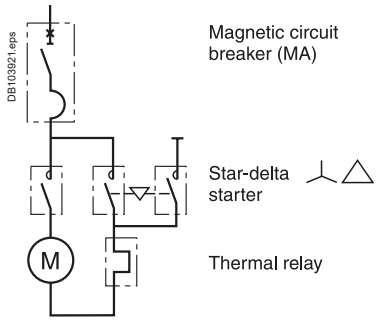
"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.

Starting	Standard IEC 60947-4-1		
Micrologic	2.2 M/2.3 M	6.2 M/6.3 M	5.0
Normal (class)	5, 10	5, 10	10
Long (class)	20	20, 30 [3]	20

Motors 220/230 V		380 V		415 V		440 V [1]		500/525 V		660/690 V		Circuit breakers	Contactors [2]		
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	Trip unit	Irth (A)	Type
7,5	28	15	30	15	28	15	26,5	18,5	28,5			NSX100B/F/N/H/S/L	Micrologic 2.2 or 6.2	25/50	LC1-D32
11	39	18,5	37	22	40	22	39	22	33	30	34,6	NSX100B/F/N/H/S/L/HB1/HB2	Micrologic 2.2 or 6.2	25/50	LC1-D40A
		22	44	25	47			30	45	33	39	NSX100B/F/N/H/S/L/HB1/HB2	Micrologic 2.2 or 6.2	25/50	LC1-D50A
15	52	30	59	30	55	30	51,5			37	42	NSX100B/F/N/H/S/L	Micrologic 2.2 or 6.2	48/80	LC1-D65A
										37	42	NSX100HB1/HB2	Micrologic 2.2 or 6.2	48/80	LC1-D80
18,5	64					37	64	37	55			NSX100B/F/N/H/S/L	Micrologic 2.2 or 6.2	48/80	LC1-D65A
22	75	37	72	37	72	45	76	55	80	45	49	NSX100B/F/N/H/S/L/HB1/HB2	Micrologic 2.2 or 6.2	48/80	LC1-D80
25	85	45	85									NSX100B/F/N/H/S/L/HB1/HB2	Micrologic 2.2 or 6.2	50/100	LC1-D95
										55	60	NSX100B/F/N/H/S/L/HB1/HB2	Micrologic 2.2 or 6.2	50/100	LC1-D80
30	100			55	100	55	96			75	80	NSX100B/F/N/H/S/L/HB1/HB2	Micrologic 2.2 or 6.2	50/100	LC1D-115 or LC1F-115
37 45	125 150	55 75	105 140	75	135	75	124	75 90	110 130	90	100	NSX160B/F/N/H/S/L NSX250HB1/HB2	Micrologic 2.2 or 6.2	70/150	LC1D-150 or LC1F-150
55	180	90	170	90	160	90 110	156 180	110	156	110	120	NSX 250B/F/N/H/S/L/HB1/HB2	Micrologic 2.2 or 6.2	100/220	LC1F-185
		110	210	110	200	132	215					NSX 250B/F/N/H/S/L/HB1/HB2	Micrologic 2.2 or 6.2	100/220	LC1F-225
								132	190	132 160	140 175	NSX 250B/F/N/H/S/L/HB1/HB2	Micrologic 2.2 or 6.2	100/220	LC1F-265
75	250	132	250	132	230	160	256	160	228			NSX400F/N/H/S/L/HB1/HB2	Micrologic 2.3 or 6.3	160/320	LC1F-265
90	312	160	300	160	270			200	281	200 220	220 240	NSX400F/N/H/S/L/HB1/HB2	Micrologic 2.3 or 6.3	160/320	LC1F-330
110	360	200	380	220	380	220	360	220	310	250	270	NSX630F/N/H/S/L/HB1/HB2	Micrologic 2.3 or 6.3	250/500	LC1F-400
		220	420			250	401	315	445	335	335	NSX630F/N/H/S/L/HB1/HB2	Micrologic 2.3 or 6.3	250/500	LC1F-500
150	480	250	480	250	430			335	460			NSX630F/N/H/S/L/HB1/HB2	Micrologic 2.3 or 6.3	250/500	LC1F-500
						300	480	355 375	500 530	375 450	400 480	NSX630F/N/H/S/L/HB1/HB2	Micrologic 2.3 or 6.3	250/500	LC1-F630
160	520	300	570	300	510	335	540	400	570			NS800N/H NS1000L	Micrologic 5.0	320/800 400/1000	LC1-F630
200	630	335	630	335	580	375	590	450	630			NS800N/H NS1000L	Micrologic 5.0	320/800 400/1000	LC1-F630
220	700	375	700	375	650	400	650					NS800N/H NS1000L	Micrologic 5.0	320/800 400/1000	LC1-F800
		400	750	400	690	450	720					NS800N/H NS1000L	Micrologic 5.0	320/800 400/1000	LC1-F800 LC1-BL33
										500 560	530 580	NS800N/H NS1000L	Micrologic 5.0	320/800 400/1000	LC1-BL33
250	800	450	800	450	750			500 560	700 760			NS1000N/H	Micrologic 5.0	400/1000	LC1-BM33
		500	900	500	830	500 560	800 900	600	830			NS1000N/H	Micrologic 5.0	400/1000	LC1-BM33
300	970	560	1000	560	920	600	960	670	920			NS1250N/H	Micrologic 5.0	630/1250	LC1-BP33
		600	1100	600	1000	670	1080	750	1020			NS1250N/H	Micrologic 5.0	630/1250	LC1-BP33

[1] For 480V application consult us.
[2] Reversers : replace LC1 with LC2.
[3] For class 30 the contacteur rating shall be checked according to 30s thermal withstand (F range).

Type 1 coordination (IEC 60947-4-1)



GV4L/LE and NSX100 circuit breaker

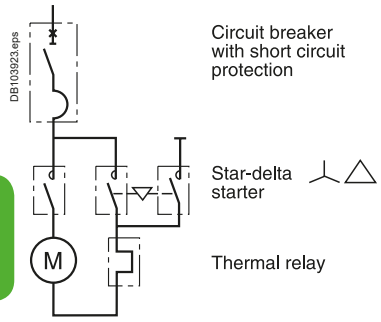
Star-delta starting

"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.
Starting: normal.

Motors 220/230 V		380 V		415 V		440 V [1]		Circuit breakers		Contactors	Thermal relays	
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	cal (A)	Type	Type	Irth (A)
0,55	2,8	1,1	2,8	1,1	2,6	1,5	3,1	GV4L or LE	3,5	LC3-D09	LRD 07	1,6/2,5
		1,5	3,8	1,5	3,5			GV4L or LE	7	LC3-D09	LRD 07	1,6/2,5
1,1	4,4	2,2	5,2	2,2	4,7	2,2	4,5	GV4L or LE	7	LC3-D09	LRD 08	2,5/4
1,5	6,1	3	6,6	3	6,5	3	5,8	GV4L or LE	12,5	LC3-D09	LRD 08	2,5/4
2,2	8,7	4	8,5	4	8,2	4	7,9	GV4L or LE	12,5	LC3-D09	LRD 10	4/6
3	11,5	5,5	11,5	5,5	11,1	5,5	10,4	GV4L or LE	12,5	LC3-D09	LRD 12	5,5/8
4	14,5	7,5	16	7,5	15	7,5	13,7	GV4L or LE	25,0	LC3-D09	LRD 14	7/10
5,5	20			9	17	9	16,9	GV4L or LE	25,0	LC3-D12	LRD 16	9/13
		11	23	11	21	11	20	GV4L or LE	25,0	LC3-D12	LRD 16	9/13
7,5	28	15	30	15	28	15	26,5	GV4L or LE	50,0	LC3-D18	LRD 21	12/18
11	39	18,5	37	22	40	22	37	GV4L or LE	50,0	LC3-D18	LRD 22	17/25
		22	44	25	47			GV4L or LE	50,0	LC3-D32	LRD 32	23/32
15	52					30	50	GV4L or LE	80,0	LC3-D32	LRD 32	23/32
				30	53			GV4L or LE	80,0	LC3-D32	LRD 32	23/32
18,5	64	30	58	37	64	37	60	GV4L or LE	80,0	3xLC1-D40A	LRD 340	30/40
		37	69					GV4L or LE	80,0	3xLC1-D40A	LRD 350	37/50
22	75	45	80	45	77	45	73	GV4L or LE	80,0	2xLC1-D50A + 1 xLC1D40A	LRD 350	37/50
30	95	55	97	55	93	55	90	GV4L or LE	115	2xLC1-D65A + 1 xLC1D40A	LRD 365	48/65
0,55	2,8	1,5	3,8	1,5	3,5	1,5	3,1	NSX100B/F/N/H/S/L MA	6,3	LC3-D09	LRD 07	1,6/2,5
1,1	4,4	2,2	5,2	2,2	4,7	2,2	4,5	NSX100B/F/N/H/S/L MA	6,3	LC3-D09	LRD 08	2,5/4
1,5	6,1	3	6,6	3	6,5	3	5,8	NSX100B/F/N/H/S/L MA	12,5	LC3-D09	LRD 08	2,5/4
2,2	8,7	4	8,5	4	8,2	4	7,9	NSX100B/F/N/H/S/L MA	12,5	LC3-D09	LRD 10	4/6
3	11,5	5,5	11,5	5,5	11,1	5,5	10,4	NSX100B/F/N/H/S/L MA	12,5	LC3-D09	LRD 12	5,5/8
4	14,5	7,5	16	7,5	15	7,5	13,7	NSX100B/F/N/H/S/L MA	25	LC3-D09	LRD 14	7/10
5,5	20			9	17	9	16,9	NSX100B/F/N/H/S/L MA	25	LC3-D12	LRD 16	9/13
		11	23	11	21	11	20	NSX100B/F/N/H/S/L MA	25	LC3-D12	LRD 16	9/13
7,5	28	15	30	15	28	15	26,5	NSX100B/F/N/H/S/L MA	50	LC3-D18	LRD 21	12/18
11	39	18,5	37	22	40	22	37	NSX100B/F/N/H/S/L MA	50	LC3-D18	LRD 22	17/25
		22	44	25	47			NSX100B/F/N/H/S/L MA	100	LC3-D32	LRD 32	23/32
15	52					30	50	NSX100B/F/N/H/S/L MA	100	LC3-D32	LRD 32	23/32
				30	53			NSX100B/F/N/H/S/L MA	100	LC3-D32	LRD 32	23/32
18,5	64	30	58	37	64	37	60	NSX100B/F/N/H/S/L MA	100	3xLC1-D40A	LRD 340	30/40
		37	69					NSX100B/F/N/H/S/L MA	100	3xLC1-D40A	LRD 350	37/50
22	75	45	80	45	77	45	73	NSX100B/F/N/H/S/L MA	100	2xLC1-D50A + 1 xLC1D40A	LRD 350	37/50
30	100			55	100	55	96	NSX100B/F/N/H/S/L MA	100	2xLC1-D65A + 1 xLC1D40A	LRD 365	48/65

[1] 480V application : Consult us.

Type 1 coordination (IEC 60947-4-1)



NSX160 to NS1000 circuit breakers

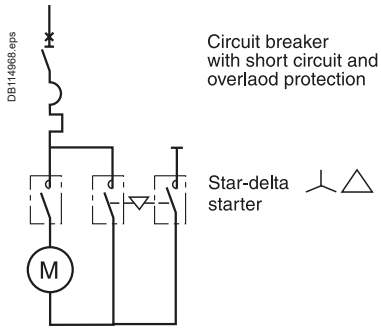
Star-delta starting

"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.
Starting: normal.

Motors 220/230 V		380 V		415 V		440 V [1]		Circuit breakers		Contactors	Thermal relays	
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	cal (A)	Type	Type	Irth (A)
		55	105					NSX160B/F/N/H/S/L MA	150	LC3-D80	LRD 3359	48/65
37	125			75	135	75	124	NSX160B/F/N/H/S/L MA	150	LC3-D80	LRD 3363	63/80
45	150	75	140					NSX160B/F/N/H/S/L MA	150	LC3-D115 LC3-F115	LR9D 5367 LR9F 5367	60/100
		90	170	90	160	90	156	NSX 250B/F/N/H/S/L MA	220	LC3-D115 LC3-F115	LR9D 5367 LR9F 5367	60/100
55	180					110	180	NSX 250B/F/N/H/S/L MA	220	LC3-D115 LC3-F115	LR9D 5369 LR9F 5369	90/150
		110	210	110	200			NSX 250B/F/N/H/S/L MA	220	LC3-D115 LC3-F115	LR9D 5369 LR9F 5369	90/150
						132	215	NSX 250B/F/N/H/S/L MA	220	LC3-D150 LC3-F150	LR9D 5369 LR9F 5369	90/150
75	250	132	250	132	230			NSX400F/N/H/S/L Micrologic 1.3M	320	LC3-D150 LC3-F150	LR9D 5369 LR9F 5369	90/150
90	312	160	300	160	270	160	256	NSX400F/N/H/S/L Micrologic 1.3M	320	LC3 F185	LR9F 5371	132/220
110	360	200	380	220	380	220	360	NSX630F/N/H/S/L Micrologic 1.3M	500	LC3-F265	LR9F 7375	200/330
		220	420			250	401	NSX630F/N/H/S/L Micrologic 1.3M	500	LC3-F265	LR9F 7375	200/330
150	480	250	480	250	430			NSX630F/N/H/S/L Micrologic 1.3M	500	LC3-F330	LR9-F73 75	200/330
						300	480	NSX630F/N/H/S/L Micrologic 1.3M	500	LC3-F330	LR9F 7375	200/330
160	520	300	570	300	510	335	540	NS800N/H Micrologic 5.0 - LR off	800	LC3-F400	LR9F 7375	200/330
								NS1000L Micrologic 5.0 - LR off	1000			
				335	580	375	590	NS800N/H Micrologic 5.0 - LR off	800	LC3-F400	LR9F 7379	300/500
								NS1000L Micrologic 5.0 - LR off	1000			

[1] 480V application : Consult us.

Type 1 coordination (IEC 60947-4-1)



GV4P/PE/PEM, NSX100 to NS1000 circuit breakers, contactors

Star-delta starting

"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.
Starting: normal.

Motors								Circuit breakers			Contactors
220/230 V		380 V		415 V		440 V [1]					
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	Trip unit	Irth (A)	Type
		0,37	1,2	0,37	1,1	0,37	1	GV4P, PE or PEM	2	0,8/2	LC3-D09
		0,55	1,6	0,55	1,5	0,55	1,4	GV4P, PE or PEM	2	0,8/2	LC3-D09
0,37	1,8	0,75	2	0,75	1,8	0,75	1,7	GV4P, PE or PEM	2	0,8/2	LC3-D09
						1,1	2,4	GV4P, PE or PEM	3,5	1,4/3,5	LC3-D09
0,55	2,8	1,1	2,8	1,1	2,6			GV4P, PE or PEM	3,5	1,4/3,5	LC3-D09
		1,5	3,8	1,5	3,5	1,5	3,3	GV4P, PE or PEM	7	2,9/7	LC3-D09
1,1	4,4	2,2	5,2	2,2	4,7	2,2	4,5	GV4P, PE or PEM	7	2,9/7	LC3-D09
1,5	6,1	3	6,6	3	6,5	3	5,8	GV4P, PE or PEM	7	2,9/7	LC3-D09
2,2	8,7	4	8,5	4	8,2	4	7,9	GV4P, PE or PEM	12,5	5/12,5	LC3-D09
3	11,5	5,5	11,5	5,5	11,1	5,5	10,5	GV4P, PE or PEM	12,5	5/12,5	LC3-D09
4	14,5	7,5	16	7,5	15	7,5	14	GV4P, PE or PEM	25	10/25	LC3-D12
				9	17	9	16,9	GV4P, PE or PEM	25	10/25	LC3-D12
5,5	20	11	23	11	21	11	20	GV4P, PE or PEM	25	10/25	LC3-D18
7,5	28	15	30	15	28	15	26,5	GV4P, PE or PEM	50	20/50	LC3-D18
11	39	18,5	37	18,5	35	22	37	GV4P, PE or PEM	50	20/50	LC3-D18
		22	44	22	40			GV4P, PE or PEM	50	20/50	LC3-D18
15	52			30	53	30	50	GV4P, PE or PEM	50	20/50	LC3-D32
18,5	64	30	58	37	64	37	60	GV4P, PE or PEM	80	40/80	3xLC1-D40A
22	75	37	69	45	77	45	73	GV4P, PE or PEM	80	40/80	3xLC1-D40A
		45	80					GV4P, PE or PEM	115	65/115	2xLC1-D50A + 1xLC1D40A
30	95	55	97	55	93	55	90	GV4P, PE or PEM	115	65/115	2xLC1-D50A + 1xLC1D40A
7,5	28	15	30	15	28	15	26,5	NSX100B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	25/50	LC3-D18
11	39	18,5	37	22	40	22	39	NSX100B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	25/50	LC3-D18
		22	44	25	47			NSX100B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	25/50	LC3-D18
15	52			30	55	30	51,5	NSX100B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	50/100	LC3-D32
				30	55			NSX100B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	50/100	LC3-D32
18,5	64	30	59	37	66	37	64	NSX100B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	50/100	3xLC1-D40A
		37	72					NSX100B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	50/100	2xLC1-D50A + 1xLC1D40A
22	75			45	80	45	76	NSX100B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	50/100	2xLC1-D50A + 1xLC1D40A
25	85	45	85					NSX100B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	50/100	2xLC1-D50A + 1xLC1D40A
30	100			55	100	55	96	NSX100B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	50/100	2xLC1-D65A + 1xLC1D40A
		55	105					NSX160B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	70/150	LC3-D80
37	125	75	140	75	135	75	124	NSX160B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	70/150	LC3-D80
45	150	75	140					NSX160B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	70/150	LC3-D115 or LC3-F115
		90	170	90	160	90	156	NSX 250B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	100/220	LC3-D115 or LC3-F115
55	180	110	210	110	200	110	180	NSX 250B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	100/220	LC3-D115 or LC3-F115
						132	215	NSX 250B/F/N/H/S/L	Micrologic 2.2M or 6.2E-M	100/220	LC3-D150 or LC3-F150
75	250	132	250	132	230			NSX400F/N/H/S/L	Micrologic 2.3M or 6.3E-M	160/320	LC3-D150 or LC3-F150
90	312	160	300	160	270	160	256	NSX400F/N/H/S/L	Micrologic 2.3M or 6.3E-M	160/320	LC3F-185
110	360	200	380	220	380	220	360	NSX630F/N/H/S/L	Micrologic 2.3M or 6.3E-M	250/500	LC3-F265
		220	420			250	401	NSX630F/N/H/S/L	Micrologic 2.3M or 6.3E-M	250/500	LC3-F265
150	480	250	480	250	430			NSX630F/N/H/S/L	Micrologic 2.3M or 6.3E-M	250/500	LC3-F330
						300	480	NSX630F/N/H/S/L	Micrologic 2.3M or 6.3E-M	250/500	LC3-F330
160	520	300	570	300	510	335	540	NS800N/H NS1000L	Micrologic 5.0	320/800 400/1000	LC3-F400
				335	580	375	590	NS800N/H NS1000L	Micrologic 5.0	320/800 400/1000	LC3-F400

[1] 480V application : Consult us.

Type 1 coordination (IEC 60947-4-1) for AC1 Utilisation category : Non-inductive or slightly inductive loads

Ue ⩽ 440 V AC

"Iq" performance: equal to the breaking capacity of the circuit breaker alone.

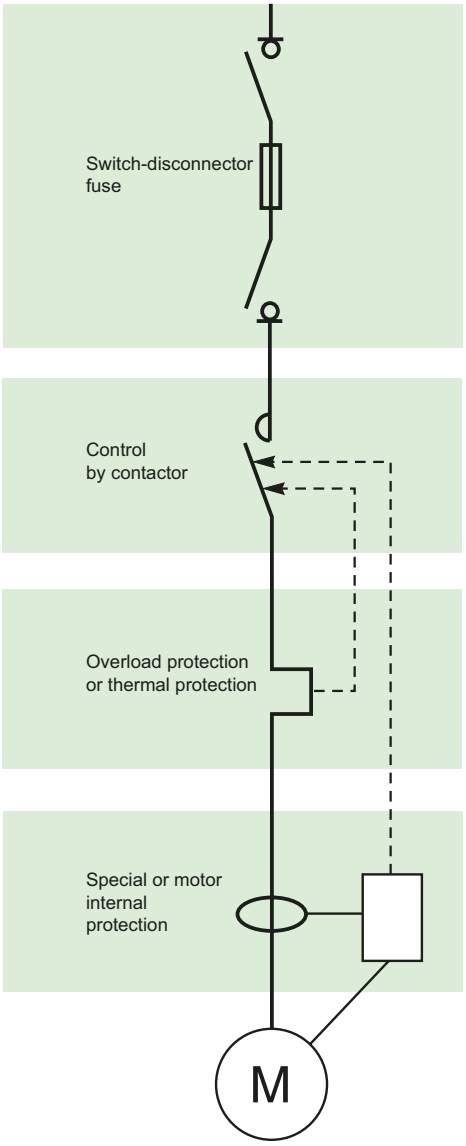
Ie max [1]	Circuit breakers	Iq 440V (kA)				Contactor
40°	Type	According to circuit breaker breaking capacity	Trip unit	Rating (A)	Ir (A)	
40	Compact NSX100 B/F/N	25/35/50	Micrologic 2.2 / 5.2	40	18..40	LC1D40A
80	Compact NSX100 B/F/N	25/35/50	Micrologic 2.2 / 5.2	100	40..100	LC1D50A or 65A
100	Compact NSX100 B/F/N	25/35/50	Micrologic 2.2 / 5.2	100	40..100	LC1D80
160	Compact NSX160 B/F/N	25/35/50	Micrologic 2.2 / 5.2	160	63..160	LC1D80
						LC1D115
250	Compact NSX250 B/F/N	35/50	Micrologic 2.3 / 5.3	250	100..250	LC1D115
275	Compact NSX400 F/N	35/50	Micrologic 2.3 / 5.3	400	160..400	LC1F185
315	Compact NSX400 F/N	35/50	Micrologic 2.3 / 5.3	400	160..400	LC1F225
350	Compact NSX400 F/N	35/50	Micrologic 2.3 / 5.3	400	160..400	LC1F265
400	Compact NSX400 F/N	35/50	Micrologic 2.3 / 5.3	400	160..400	LC1F330
500	Compact NSX630 F/N	35/50	Micrologic 2.3 / 5.3	630	150..630	LC1F400
630	Compact NSX630 F/N	35/50	Micrologic 2.3 / 5.3	630	150..630	LC1F500
800	Compact NS800L	130	Micrologic 2.0 / 5.0 / 6.0 / 7.0	800	320..800	LC1F630
1000	Compact NS1000L	130	Micrologic 2.0 / 5.0 / 6.0 / 7.0	1000	400..1000	LC1F630
						LC1F1250
1250	Masterpact MTZ1 12 H1/H2/H3	42/50/50	Micrologic 5/6/7.0X Ii "fast"	1250	500..1259	LC1F1400
1400	Masterpact MTZ1 16 H1/H2/H3	42/50/50	Micrologic 5/6/7.0X Ii "fast"	1600	630..1600	LC1F1400
1600	Masterpact MTZ1 16 H1/H2/H3	42/50/50	Micrologic 5/6/7.0X Ii "fast"	1600	630..1600	LC1F1700
	Masterpact MTZ2 16 N1/H1/H2					
1700	Masterpact MTZ2 20 N1/H1/H2	42/50/50	Micrologic 5/6/7.0X Ii "fast"	2000	800..2000	LC1F1700
2000	Masterpact MTZ2 20 N1/H1/H2	42/50/50	Micrologic 5/6/7.0X Ii "fast"	2000	800..2000	LC1F1700
2100	Masterpact MTZ2 25 N1/H1/H2	42/50/50	Micrologic 5/6/7.0X Ii "fast"	2500	1000..2500	LC1F2100

[1] Values for Fix circuit breaker with IEC60947-1 Tables 9 & 10 cross section of conductors. Check derating of circuit breaker and contactor according to ambiant temperature and installation.

Protection of motor circuits with fuses: general

Example:
An INF●160 can receive BS fuse-links in sizes A2, A3 or A4, which correspond to the following ratings:
- ■ A2 size:
  - □ 2 to 32 A for gG fuse-links
  - □ 32M35 to 32M63 for gM fuse-links
- ■ A3 size:
  - □ 35 to 63 A for gG fuse-links
  - □ 63M80 to 63M100 for gM fuse-links
- ■ A4 size:
  - □ 80 to 100 A for gG fuse-links
  - □ 100M125 to 100M200 for gM fuse-links.

The tables on page 208 to page 212 directly indicate the correct selection of fuse-links and Fupact switches depending on the distribution circuit rating and the motor rating (for direct-on-line starting).



Fuse size table

The table below indicates the minimum and maximum fuse sizes depending on the rating of the switch and the applicable reference standard.

	BS		DIN		NFC	
	min.	max.	min.	max.	min.	max.
INF•32	A1	A2			10 x 38	14 x 51
INFD40			000	000		
INFC50					14 x 51	14 x 51
INF•63	A2	A3	000	000	22 x 58	22 x 58
INF•100	A2	A4				
INFC125					22 x 58	22 x 58
INF•160	A2	A4	000	00		
INF•200	B1	B2	0	0		
INF•250	B1	B3	0	1		
INF•400	B1	B4	0	2		
INF•630	C1	C3	3	3		
INF•800	C1	C3	3	3		
ISFT100N			000	000		
ISFT100			000	000		
ISF•160			000	00		
ISF•250			1	1		
ISF•400			2	2		
ISF•630			3	3		

Protection of motor feeders

A motor feeder is generally made up of:
- ■ a control contactor
- ■ a thermal relay for overcurrent protection
- ■ a short-circuit protection device
- ■ a disconnection device capable of interrupting load currents.

Fupact switch-disconnector fuses are ideally suited to perform the last two functions in the list. What is more, Fupact devices are totally compatible with the IEC 60204 machine directive.

Additional specific protection:
- ■ fault limiting protection (while the motor is running)
- ■ fault prevention (monitoring of motor insulation with motor off).

Fupact characteristics

The local emergency-off switch must have the AC23 characteristic for the rated motor current.
Motor starting characteristics are the following:
- ■ peak current: 8 to 10 In
- ■ duration of peak current: 20 to 30 ms
- ■ starting current Id: 4 to 8 In
- ■ starting time td: 2 to 4 seconds.

Short-circuit protection of motors is ensured by aM or gM [1] fuse-links that are sized to take into account the above characteristics.
Fupact offers a wide range of fuse utilisations, whatever the applicable reference standard.
[1] A gM fuse-link is in fact simply a derated gG fuse-link.

Coordination of devices on the motor feeder

- ■ Thermal protection of:
  - □ motor
  - □ conductors
  - □ switch
  - □ fuse

is ensured by the thermal relay on the contactor.
- ■ Overload (or short-circuit) protection of:
  - □ motor
  - □ conductors
  - □ switch
  - □ thermal relay

is ensured by the fuse.
To ensure a high level of operational quality, it is important to ensure **coordination of the devices** on the motor feeder in compliance with standard IEC 60947-4.
The equipment manufacturers provide type-1 and type-2 coordination tables between fuse-links, contactors and thermal relays.

NOTE : Proposed fuses are based on 4 poles 50 Hz induction motors direct on line start Id/In y 7 for 10 sec.
The choice of fuses and overload relay shall be checked according to the actual motor's caracteristic.

Protection of motor circuits with BS fuses

Selection tables for Fupact devices and associated BS fuse-links

Example:
A 37 kW motor supplied at 415 V is protected by 160 A gM fuse-links.
This type of fuse-link may be mounted on a Fupact INFB100 or higher.
See the grey section in the table opposite.

230/240 V				
P(kW)	(HP)	In (A)	Fupact	gG/gM
0.37	0.5	**1.9**	**INFB32**	**gG 6**
1	0.7	**2.7**	**INFB32**	**gG 10**
0.8	1	**3.6**	**INFB32**	**gG 16**
1.1	1.5	**4.5**	**INFB32**	**gG 16**
1.5	2	**6.3**	**INFB32**	**gG 20**
2.2	2.9	**9**	**INFB32**	**20M25**
3	4	**11.7**	**INFB32**	**20M32**
4	5.3	**15.2**	**INFB32**	**32M40**
5.5	7.3	**19.8**	**INFB32**	**32M50**
7.5	10	**26**	**INFB32**	**32M50**
10	13	**34**	**INFB32**	**63M80**
11	15	**38**	**INFB63**	**63M80**
15	20	**51**	**INFB63**	**63M100**
18.5	25	**63**	**INFB100**	**100M160**
22	29	**74**	**INFB100**	**100M160**
30	40	**99**	**INFB200**	**gG 200**
37	49	**125**	**INFB200**	**200M250**
45	60	**144**	**INFB200**	**200M250**
55	73	**177**	**INFB250**	**315M400**
75	100	**245**	**INFB250**	**315M400**
90	120	**296**	**INFB400**	**400M450**
110	147	**354**	**INFB630**	**gG 630**
132	176	**408**	**INFB800**	**gG 800**
150	200	**484**	**INFB800**	**gG 800**
160	213	**496**	**INFB800**	**gG 800**

415V				
P(kW)	(HP)	In (A)	Fupact	gG/gM
0.37	0.5	**1.1**	**INFB32**	**gG 4**
1	0.7	**1.5**	**INFB32**	**gG 6**
0.8	1	**2**	**INFB32**	**gG 10**
1.1	1.5	**2.5**	**INFB32**	**gG 10**
1.5	2	**3.5**	**INFB32**	**gG 16**
2.2	2.9	**5**	**INFB32**	**gG 16**
3	4	**6.5**	**INFB32**	**gG 20**
4	5.3	**8.4**	**INFB32**	**20M25**
5.5	7.3	**11**	**INFB32**	**20M32**
7.5	10	**14.4**	**INFB32**	**32M40**
10	13.3	**19.1**	**INFB32**	**32M50**
11	15	**21**	**INFB32**	**32M50**
15	20	**28**	**INFB32**	**32M63**
18.5	25	**35**	**INFB63**	**63M80**
22	29	**41**	**INFB63**	**63M80**
30	40	**55**	**INFB63**	**63M100**
37	49	**69**	**INFB100**	**100M160**
45	60	**80**	**INFB100**	**100M160**
55	73	**98**	**INFB200**	**gG 200**
75	100	**136**	**INFB200**	**200M250**
90	120	**164**	**INFB200**	**200M315**
110	147	**196**	**INFB250**	**315M400**
132	176	**226**	**INFB250**	**315M400**
150	200	**268**	**INFB400**	**400M500**
160	213	**275**	**INFB400**	**400M500**
200	267	**358**	**INFB630**	**gG 630**
240	320	**428**	**INFB800**	**gG 800**
280	373	**488**	**INFB800**	**gG 800**

Protection of motor circuits with NFC fuses

Selection tables for Fupact devices and associated NFC fuse-links

Example:
A 30 kW motor supplied at 690 V is protected by:
- 80 A gG fuse-links
- 32 A aM fuse-links.

Both types of fuse-links may be mounted on a Fupact INFC63 [1] or higher.
See the grey section in the table on following page.

[1] Fupact is designed to allow overrated protection.

230/240 V

P(kW)	(HP)	In (A)	Fupact	gG	Fupact	aM
0.37	0.49	1.9	INFC32	6	INFC32	2
0.55	0.73	2.7	INFC32	10	INFC32	4
0.75	1	3.6	INFC32	16	INFC32	4
1.1	1.5	4.5	INFC32	16	INFC32	6
1.5	2	6.3	INFC32	20	INFC32	8
2.2	2.9	9	INFC32	25	INFC32	10
3	4	11.7	INFC32	32	INFC32	12
4	5.3	15.2	INFC32	40	INFC32	16
5.5	7.3	19.8	INFC32	50	INFC32	20
7.5	10	26	INFC50	50	INFC32	32
10	13	34	INFC63	80	INFC50	40
11	15	38	INFC63	80	INFC50	40
15	20	51	INFC63	100	INFC63	63
18.5	25	63	-	160	INFC125	80
22	29	74	-	160	INFC125	80
30	40	99	-	200	INFC125	100
37	49	125	-	250	INFC125	125

380/400V

P(kW)	(HP)	In (A)	Fupact	gG	Fupact	aM
0.37	0.49	1.1	INFC32	4	INFC32	2
0.55	0.73	1.6	INFC32	6	INFC32	2
0.75	1	2.2	INFC32	10	INFC32	4
1.1	1.5	2.7	INFC32	10	INFC32	4
1.5	2	3.8	INFC32	16	INFC32	4
2.2	2.9	5.5	INFC32	16	INFC32	6
3	4	7.1	INFC32	20	INFC32	8
4	5.3	9.2	INFC32	25	INFC32	10
5.5	7.3	12	INFC32	32	INFC32	12
7.5	10	16	INFC32	40	INFC32	16
10	13	21	INFC32	50	INFC32	25
11	15	23	INFC32	50	INFC32	25
15	20	31	INFC63	80	INFC32	32
18.5	25	38	INFC63	80	INFC50	40
22	29	45	INFC63	100	INFC50	50
30	40	60	INFC63	125	INFC63	63
37	49	75	-	160	INFC125	80
45	60	87	-	200	INFC125	100
55	73	107	-	200	INFC125	125

415 V

P(kW)	(HP)	In (A)	Fupact	gG	Fupact	aM
0.37	0.49	1.1	INFC32	4	INFC32	2
0.55	0.73	1.5	INFC32	6	INFC32	2
0.75	1	2	INFC32	6	INFC32	2
1.1	1.5	2.5	INFC32	10	INFC32	4
1.5	2	3.5	INFC32	16	INFC32	4
2.2	2.9	5	INFC32	16	INFC32	6
3	4	6.5	INFC32	20	INFC32	8
4	5.3	8.4	INFC32	25	INFC32	10
5.5	7.3	11	INFC32	32	INFC32	12
7.5	10	14	INFC32	40	INFC32	16
10	13	19	INFC32	50	INFC32	25
11	15	21	INFC32	50	INFC32	25
15	20	28	INFC63	63	INFC32	32
18.5	25	35	INFC63	80	INFC50	40
22	29	41	INFC63	80	INFC50	50
30	40	55	INFC63	100	INFC63	63
37	49	69	-	160	INFC125	80
45	60	80	-	160	INFC125	80
55	73	98	-	200	INFC125	100

440 V

P(kW)	(HP)	In (A)	Fupact	gG	Fupact	aM
0.37	0.49	1	INFC32	4	INFC32	2
0.55	0.73	1.4	INFC32	6	INFC32	2
0.75	1	1.9	INFC32	6	INFC32	2
1.1	1.5	2.4	INFC32	10	INFC32	4
1.5	2	3.3	INFC32	10	INFC32	4
2.2	2.9	4.7	INFC32	16	INFC32	6
3	4	6.1	INFC32	16	INFC32	6
4	5.3	7.9	INFC32	20	INFC32	8
5.5	7.3	10.4	INFC32	25	INFC32	10
7.5	10	14	INFC32	40	INFC32	16
10	13	18	INFC50	50	INFC32	20
11	15	20	INFC50	50	INFC32	20
15	20	26	INFC63	63	INFC32	32
18.5	25	33	INFC63	80	INFC50	40
22	29	39	INFC63	80	INFC50	40
30	40	52	INFC63	100	INFC50	50
37	49	65	-	160	INFC125	80
45	60	75	-	160	INFC125	80
55	73	92	-	200	INFC125	100

Protection of motor circuits with NFC fuses

500 V						
P(kW)	(HP)	In (A)	Fupact	gG	Fupact	aM
0.37	0.49	**0.9**	**INFC32**	**4**	**INFC32**	**2**
0.55	0.73	**1.2**	**INFC32**	**4**	**INFC32**	**2**
0.75	1	**1.5**	**INFC32**	**6**	**INFC32**	**2**
1.1	1.5	**2.2**	**INFC32**	**6**	**INFC32**	**2**
1.5	2	**2.9**	**INFC32**	**10**	**INFC32**	**4**
2.2	2.9	**3.9**	**INFC32**	**10**	**INFC32**	**4**
3	4	**5.2**	**INFC32**	**16**	**INFC32**	**6**
4	5.3	**6.8**	**INFC32**	**20**	**INFC32**	**8**
5.5	7.3	**9.2**	**INFC32**	**25**	**INFC32**	**10**
7.5	10	**12**	**INFC32**	**32**	**INFC32**	**12**
10	13	**16**	**INFC32**	**32**	**INFC32**	**16**
11	15	**18**	**INFC32**	**40**	**INFC32**	**20**
15	20	**23**	**INFC63**	**50**	**INFC32**	**25**
18.5	25	**28**	**INFC63**	**63**	**INFC50**	**32**
22	29	**33**	**INFC63**	**80**	**INFC50**	**40**
30	40	**45**	**INFC63**	**100**	**INFC63**	**50**
37	49	**53**	**INFC63**	**100**	**INFC63**	**63**
45	60	**64**	**-**	**160**	**INFC125**	**80**
55	73	**78**	**-**	**160**	**INFC125**	**80**

525/550 V						
P(kW)	(HP)	In (A)	Fupact	gG	Fupact	aM
0.37	0.49	**0.8**	**INFC63**	**4**	**INFC32**	**2**
0.55	0.73	**1.1**	**INFC63**	**4**	**INFC32**	**2**
0.75	1	**1.4**	**INFC63**	**6**	**INFC32**	**2**
1.1	1.5	**2.1**	**INFC63**	**6**	**INFC32**	**2**
1.5	2	**2.8**	**INFC63**	**10**	**INFC32**	**4**
2.2	2.9	**3.7**	**INFC63**	**10**	**INFC32**	**4**
3	4	**4.9**	**INFC63**	**16**	**INFC32**	**6**
4	5.3	**6.5**	**INFC63**	**20**	**INFC32**	**8**
5.5	7.3	**8.7**	**INFC63**	**25**	**INFC32**	**10**
7.5	10	**12**	**INFC63**	**32**	**INFC32**	**12**
10	13	**15**	**INFC63**	**32**	**INFC32**	**16**
11	15	**17**	**INFC63**	**40**	**INFC32**	**20**
15	20	**22**	**INFC63**	**50**	**INFC32**	**25**
18.5	25	**27**	**INFC63**	**63**	**INFC63**	**32**
22	29	**31**	**INFC63**	**80**	**INFC63**	**40**
30	40	**43**	**-**	**100**	**INFC63**	**50**
37	49	**50**	**-**	**100**	**INFC63**	**63**
45	60	**61**	**-**	**125**	**INFC63**	**63**
55	73	**74**	**-**	**160**	**INFC125**	**80**

660/690V						
P(kW)	(HP)	In (A)	Fupact	gG	Fupact	aM
0.37	0.49	**0.7**	**INFC63**	**2**	**INFC32**	**2**
0.55	0.73	**0.9**	**INFC63**	**4**	**INFC32**	**2**
0.75	1	**1.1**	**INFC63**	**4**	**INFC32**	**2**
1.1	1.5	**1.6**	**INFC63**	**6**	**INFC32**	**2**
1.5	2	**2.2**	**INFC63**	**6**	**INFC32**	**4**
2.2	2.9	**2.8**	**INFC63**	**10**	**INFC32**	**4**
3	4	**3.8**	**INFC63**	**10**	**INFC32**	**6**
4	5.3	**4.9**	**INFC63**	**16**	**INFC32**	**6**
5.5	7.3	**6.7**	**INFC63**	**20**	**INFC32**	**8**
7.5	10	**9**	**INFC63**	**25**	**INFC32**	**10**
10	13	**12**	**INFC63**	**32**	**INFC32**	**12**
11	15	**13**	**INFC63**	**32**	**INFC32**	**16**
15	20	**17**	**INFC63**	**40**	**INFC32**	**20**
18.5	25	**22**	**INFC63**	**50**	**INFC32**	**25**
22	29	**24**	**INFC63**	**50**	**INFC63**	**25**
30	40	**32**	**INFC63**	**80**	**INFC63**	**32**
37	49	**39**	**INFC63**	**80**	**INFC63**	**40**
45	60	**47**	**-**	**100**	**INFC63**	**50**
55	73	**57**	**-**	**125**	**INFC63**	**63**
75	100	**77**	**-**	**160**	**INFC125**	**80**

Protection of motor circuits with DIN fuses

Selection tables for Fupact devices and associated DIN fuse-links

Example:
A 75 kW motor supplied at 500 V is protected by:
- 200 A gG fuse-links
- 125 A aM fuse-links.

Both types of fuse-links may be mounted on a Fupact INFD200 or higher.
See the grey section in the table below.

230/240 V

P(kW)	(HP)	In (A)	Fupact	gG	Fupact	aM
0.37	0.49	**1.9**	INFD40	6	INFD40	2
0.55	0.73	**2.7**	INFD40	10	INFD40	4
0.75	1	**3.6**	INFD40	16	INFD40	4
1.1	1.5	**4.5**	INFD40	16	INFD40	6
1.5	2	**6.3**	INFD40	20	INFD40	8
2.2	2.9	**9.0**	INFD40	25	INFD40	10
3	4	**11.7**	INFD40	32	INFD40	12
4	5.3	**15.2**	INFD40	40	INFD40	16
5.5	7.3	**19.8**	INFD40	50	INFD40	20
7.5	10	**26**	INFD40	50	INFD40	32
10	13	**34**	INFD40	80	INFD40	40
11	15	**38**	INFD40	80	INFD40	40
15	20	**51**	INFD63	100	INFD63	63
18.5	25	**63**	INFD160	160	INFD160	80
22	29	**74**	INFD160	160	INFD160	80
30	40	**99**	INFD200	200	INFD160	100
37	49	**125**	INFD200	250	INFD160	125
45	60	**144**	INFD200	250	INFD160	160
55	73	**177**	INFD250	355	INFD200	200
75	100	**245**	INFD400	400	INFD400	250
90	120	**296**	INFD400	450	INFD400	315
110	147	**354**	INFD630	630	INFD400	355
132	176	**408**	INFD630	800	INFD630	450
150	200	**484**	INFD630	800	INFD630	500
160	213	**496**	INFD630	800	INFD630	500
200	267	**646**	-	-	INFD800	800

380/400V

P(kW)	(HP)	In (A)	Fupact	gG	Fupact	aM
0.37	0.49	**1.1**	INFD40	4	INFD40	2
0.55	0.73	**1.6**	INFD40	6	INFD40	2
0.75	1	**2.2**	INFD40	10	INFD40	4
1.1	1.5	**2.7**	INFD40	10	INFD40	4
1.5	2	**3.8**	INFD40	16	INFD40	4
2.2	2.9	**5.55,5**	INFD40	16	INFD40	6
3	4	**7.1**	INFD40	20	INFD40	8
4	5.3	**9.2**	INFD40	25	INFD40	10
5.5	7.3	**12**	INFD40	32	INFD40	12
7.5	10	**16**	INFD40	40	INFD40	16
10	13	**21**	INFD40	50	INFD40	25
11	15	**23**	INFD40	50	INFD40	25
15	20	**31**	INFD40	80	INFD40	32
18.5	25	**38**	INFD40	80	INFD40	40
22	29	**45**	INFD63	100	INFD63	50
30	40	**60**	INFD63	125	INFD63	63
37	49	**75**	INFD160	160	INFD160	80
45	60	**87**	INFD200	200	INFD160	100
55	73	**107**	INFD200	200	INFD160	125
75	100	**149**	INFD200	250	INFD160	160
90	120	**179**	INFD250	355	INFD200	200
110	147	**214**	INFD400	400	INFD250	250
132	176	**247**	INFD400	450	INFD250	250
150	200	**293**	INFD400	500	INFD400	315
160	213	**300**	INFD630	630	INFD400	315
200	267	**391**	INFD630	800	INFD400	400
240	320	**467**	INFD630	800	INFD630	500
280	373	**533**	-	-	INFD630	630
300	400	**573**	-	-	INFD630	630
320	427	**588**	-	-	INFD630	630

415 V

P(kW)	(HP)	In (A)	Fupact	gG	Fupact	aM
0.37	0.49	**1.1**	INFD40	4	INFD40	2
0.55	0.73	**1.5**	INFD40	6	INFD40	2
0.75	1	**2**	INFD40	10	INFD40	2
1.1	1.5	**2.5**	INFD40	10	INFD40	4
1.5	2	**3.5**	INFD40	16	INFD40	4
2.2	2.9	**5**	INFD40	16	INFD40	6
3	4	**6.5**	INFD40	20	INFD40	8
4	5.3	**8.4**	INFD40	25	INFD40	10
5.5	7.3	**11**	INFD40	32	INFD40	12
7.5	10	**14**	INFD40	40	INFD40	16
10	13	**19**	INFD40	50	INFD40	25
11	15	**21**	INFD40	50	INFD40	25
15	20	**28**	INFD40	63	INFD40	32
18.5	25	**35**	INFD40	80	INFD40	40
22	29	**41**	INFD63	80	INFD63	50
30	40	**55**	INFD63	100	INFD63	63
37	49	**69**	INFD160	160	INFD160	80
45	60	**80**	INFD160	160	INFD160	80
55	73	**98**	INFD200	200	INFD160	100
75	100	**136**	INFD200	250	INFD160	160
90	120	**164**	INFD250	315	INFD200	200
110	147	**196**	INFD250	355	INFD200	200
132	176	**226**	INFD400	400	INFD250	250
150	200	**268**	INFD400	450	INFD400	315
160	213	**275**	INFD400	500	INFD400	315
200	267	**358**	INFD630	630	INFD400	400
240	320	**428**	INFD630	800	INFD630	450
280	373	**488**	INFD630	800	INFD630	500
300	400	**525**	-	-	INFD630	630
320	427	**538**	-	-	INFD630	630
355	473	**605**	-	-	INFD630	630
375	500	**610**	-	-	INFD630	630

440 V

P(kW)	(HP)	In (A)	Fupact	gG	Fupact	aM
0.37	0.49	**1**	INFD40	4	INFD40	2
0.55	0.73	**1.4**	INFD40	6	INFD40	2
0.75	1	**1.9**	INFD40	6	INFD40	2
1.1	1.5	**2.4**	INFD40	10	INFD40	4
1.5	2	**3.3**	INFD40	10	INFD40	4
2.2	2.9	**4.7**	INFD40	16	INFD40	6
3	4	**6.1**	INFD40	16	INFD40	6
4	5.3	**7.9**	INFD40	20	INFD40	8
5.5	7.3	**10.4**	INFD40	25	INFD40	10
7.5	10	**14**	INFD40	40	INFD40	16
10	13	**18**	INFD40	50	INFD40	20
11	15	**20**	INFD40	50	INFD40	20
15	20	**26**	INFD40	63	INFD40	32
18.5	25	**33**	INFD40	80	INFD40	40
22	29	**39**	INFD40	80	INFD40	40
30	40	**52**	INFD63	100	INFD63	50
37	49	**65**	INFD160	160	INFD160	80
45	60	**75**	INFD160	160	INFD160	80
55	73	**92**	INFD160	200	INFD160	100
75	100	**128**	INFD200	250	INFD160	125
90	120	**155**	INFD250	315	INFD160	160
110	147	**185**	INFD250	355	INFD200	200
132	176	**213**	INFD400	400	INFD250	250
150	200	**253**	INFD400	450	INFD400	250
160	213	**259**	INFD400	500	INFD400	315
200	267	**338**	INFD630	630	INFD400	355
240	320	**404**	INFD630	800	INFD630	400
280	373	**460**	INFD630	800	INFD630	450
300	400	**495**	INFD630	800	INFD630	500
320	427	**507**	-	-	INFD630	500
355	473	**560**	-	-	INFD630	630
375	500	**575**	-	-	INFD630	630
400	533	**611**	-	-	INFD630	630

500 V

P(kW)	(HP)	In (A)	Fupact	gG	Fupact	aM
0.37	0.49	**0.9**	INFD40	4	INFD40	2
0.55	0.73	**1.2**	INFD40	4	INFD40	2
0.75	1	**1.5**	INFD40	6	INFD40	2
1.1	1.5	**2.2**	INFD40	6	INFD40	2
1.5	2	**2.9**	INFD40	10	INFD40	4
2.2	2.9	**3.9**	INFD40	10	INFD40	4
3	4	**5.2**	INFD40	16	INFD40	6
4	5.3	**6.8**	INFD40	20	INFD40	8
5.5	7.3	**9.2**	INFD40	25	INFD40	10
7.5	10	**12**	INFD40	32	INFD40	12
10	13	**16**	INFD40	32	INFD40	16
11	15	**18**	INFD40	40	INFD40	20
15	20	**23**	INFD40	50	INFD40	25
18.5	25	**28**	INFD40	63	INFD40	32
22	29	**33**	INFD40	80	INFD40	40
30	40	**45**	INFD63	100	INFD63	50
37	49	**53**	INFD63	100	INFD160	63
45	60	**64**	INFD160	160	INFD160	80
55	73	**78**	INFD160	160	INFD160	80
75	100	**106**	INFD200	200	INFD160	125
90	120	**130**	INFD200	250	INFD160	160
110	147	**155**	INFD250	315	INFD200	160
132	176	**187**	INFD250	355	INFD250	200
150	200	**211**	INFD400	400	INFD400	250
160	213	**225**	INFD400	400	INFD400	250
200	267	**280**	INFD400	450	INFD400	315
240	320	**338**	INFD630	630	INFD630	355
280	373	**386**	INFD630	800	INFD630	400
300	400	**415**	INFD630	800	INFD630	450
320	427	**435**	INFD630	800	INFD630	450
355	473	**488**	INFD630	800	INFD630	500
375	500	**515**	-	-	INFD630	500
400	533	**552**	-	-	INFD630	630
450	600	**630**	-	-	INFD630	630

Protection of motor circuits with DIN fuses

525/550 V						
P(kW)	(HP)	In (A)	Fupact	gG	Fupact	aM
0.37	0.49	**0.8**	**INFD40**	**4**	**INFD40**	**2**
0.55	0.73	**1.1**	**INFD40**	**4**	**INFD40**	**2**
0.75	1	**1.4**	**INFD40**	**6**	**INFD40**	**2**
1.1	1.5	**2.1**	**INFD40**	**6**	**INFD40**	**2**
1.5	2	**2.8**	**INFD40**	**10**	**INFD40**	**4**
2.2	2.9	**3.7**	**INFD40**	**10**	**INFD40**	**4**
3	4	**4.9**	**INFD40**	**16**	**INFD40**	**6**
4	5.3	**6.5**	**INFD40**	**20**	**INFD40**	**8**
5.5	7.3	**8.7**	**INFD40**	**25**	**INFD40**	**10**
7.5	10	**12**	**INFD40**	**32**	**INFD40**	**12**
10	13	**15**	**INFD40**	**32**	**INFD40**	**16**
11	15	**17**	**INFD40**	**40**	**INFD40**	**20**
15	20	**22**	**INFD40**	**50**	**INFD40**	**25**
18.5	25	**27**	**INFD40**	**63**	**INFD40**	**32**
22	29	**31**	**INFD63**	**80**	**INFD40**	**40**
30	40	**43**	**INFD160**	**100**	**INFD63**	**50**
37	49	**50**	**INFD160**	**100**	**INFD63**	**63**
45	60	**61**	**INFD160**	**125**	**INFD63**	**63**
55	73	**74**	**INFD200**	**160**	**INFD160**	**80**
75	100	**101**	**INFD250**	**200**	**INFD160**	**100**
90	120	**123**	**INFD400**	**250**	**INFD160**	**125**
110	147	**147**	**INFD400**	**250**	**INFD250**	**160**
132	176	**178**	**INFD630**	**355**	**INFD250**	**200**
150	200	**200**	**INFD630**	**400**	**INFD250**	**200**
160	213	**214**	**INFD630**	**400**	**INFD250**	**250**
200	267	**266**	**INFD630**	**450**	**INFD400**	**315**
240	320	**321**	**-**	**-**	**INFD400**	**355**
280	373	**366**	**-**	**-**	**INFD400**	**400**
300	400	**394**	**-**	**-**	**INFD400**	**400**
320	427	**413**	**-**	**-**	**INFD630**	**450**
355	473	**464**	**-**	**-**	**INFD630**	**500**
375	500	**490**	**-**	**-**	**INFD630**	**500**

660/690V						
P(kW)	(HP)	In (A)	Fupact	gG	Fupact	aM
0.37	0.49	**0.7**	**INFD40**	**2**	**INFD40**	**2**
0.55	0.73	**0.9**	**INFD40**	**4**	**INFD40**	**2**
0.75	1	**1.1**	**INFD40**	**4**	**INFD40**	**2**
1.1	1.5	**1.6**	**INFD40**	**6**	**INFD40**	**2**
1.5	2	**2.2**	**INFD40**	**6**	**INFD40**	**4**
2.2	2.9	**2.8**	**INFD40**	**10**	**INFD40**	**4**
3	4	**3.8**	**INFD40**	**10**	**INFD40**	**6**
4	5.3	**4.9**	**INFD40**	**16**	**INFD40**	**6**
5.5	7.3	**6.7**	**INFD40**	**20**	**INFD40**	**8**
7.5	10	**9**	**INFD40**	**25**	**INFD40**	**10**
10	13	**12**	**INFD40**	**32**	**INFD40**	**12**
11	15	**13**	**INFD40**	**32**	**INFD40**	**16**
15	20	**17**	**INFD40**	**40**	**INFD40**	**20**
18.5	25	**22**	**INFD40**	**50**	**INFD40**	**25**
22	29	**24**	**INFD40**	**50**	**INFD40**	**25**
30	40	**32**	**INFD63**	**80**	**INFD40**	**32**
37	49	**39**	**INFD63**	**80**	**INFD63**	**40**
45	60	**47**	**INFD160**	**100**	**INFD63**	**50**
55	73	**57**	**INFD160**	**125**	**INFD63**	**63**
75	100	**77**	**INFD200**	**160**	**INFD160**	**80**
90	120	**93**	**INFD250**	**200**	**INFD160**	**100**
110	147	**113**	**INFD250**	**250**	**INFD160**	**125**
132	176	**134**	**INFD250**	**250**	**INFD250**	**160**
150	200	**152**	**INFD400**	**315**	**INFD250**	**160**
160	213	**162**	**INFD400**	**315**	**INFD250**	**160**
200	267	**203**	**INFD630**	**400**	**INFD250**	**200**
240	320	**244**	**INFD630**	**450**	**INFD250**	**250**
280	373	**284**	**INFD630**	**500**	**INFD400**	**315**
300	400	**305**	**INFD630**	**500**	**INFD400**	**315**
320	427	**325**	**-**	**-**	**INFD630**	**355**
355	473	**354**	**-**	**-**	**INFD630**	**355**
375	500	**374**	**-**	**-**	**INFD630**	**400**
400	533	**400**	**-**	**-**	**INFD630**	**400**
450	600	**455**	**-**	**-**	**INFD630**	**450**

Type 2 coordination (IEC 60947-4-1) 380/415 V

Schneider Electric switch-disconnector fuses and contactors

Performance: Ue = 380/415 V - "Iq" 100 kA

Starting Class 10 A/10

Motors				Switch-fuse [1]	Fuse-link type		Contactors [2]	Thermal relays	
P (kW)	I (A) 380 V	I (A) 415 V	Ie Max (A)	Type	gG rating (A)	aM rating (A)	Type	Type	Irth (A)
0.37	1.2	1.1	1.6	INFC32 or INFD40	4	2	LC1-D09	LRD 06	1/1.6
0.55	1.6	1.5	1.6	INFC32 or INFD40	6	2	LC1-D09	LRD 06	1/1.6
0.75	2	1.8	2.5	INFC32 or INFD40	10	4	LC1-D09	LRD 07	1.6/2.5
1.1	2.8	2.6	2.5	INFC32 or INFD40	10	4	LC1-D09	LRD 07	1.6/2.5
1.5	3.7	3.4	4	INFC32 or INFD40	16	4	LC1-D09	LRD 08	2.5/4
2.2	5.3	4.8	6	INFC32 or INFD40	16	6	LC1-D09	LRD 10	4/6
3	7	6.5	8	INFC32 or INFD40	20	8	LC1-D09	LRD 12	5.5/8
4	9	8.2	10	INFC32 or INFD40	25	10	LC1-D12	LRD 14	7/10
5.5	12	11	12	INFC32 or INFD40	32	12	LC1-D12	LRD 16	9/13
7.5	16	14	16	INFC32 or INFD40	40	16	LC1-D18	LRD 21	12/18
10	21	19	24	INFC32 or INFD40	50	25	LC1-D25	LRD 22	16/24
11	23	21	24	INFC32 or INFD40	50	25	LC1-D25	LRD 22	16/24
15	30	28	32	INFC32 or INFD40 INFC63 or INFD40	- 63	32 -	LC1-D32	LRD 32	23/32
18.5	37	34	40	INFC50 or INFD40 INFC63 or INFD40	- 80	40 -	LC1-D40A	LRD 340	30/40
22	43	40	50	INFC50 or INFD63 INFC63 or INFD63	- 100	50 -	LC1-D50A	LRD 350	37/50
30	59	55	63	INFC63 or INFD63	125	63	LC1-D65A	LRD 365	48/65
37	72	66	80	INFC125 or INFD160	160	80	LC1-D80	LRD 3363	63/80
45	85	80	100	INFC125 or INFD160 INFD200	- 200	100 -	LC1-D115	LR9-D53 67	60/100
55	105	100	115	INFC125 or INFD160 INFD200	- 200	125 -	LC1-D115	LR9-D53 69	90/150
75	140	135	150	INFD160 INFD200	- 250	160 -	LC1-D150	LR9-D53 69	90/150
90	170	160	185	INFD200 INFD250	- 355	200 -	LC1-F265	LR9-F53 71	132/220
110	210	200	220	INFD250 INFD400	- 400	250 -	LC1-F330	LR9-F53 71	132/220
132	250	230	250	INFD250 INFD400	- 450	250 -	LC1-F330	LR9-F73 75	200/330
160	300	270	265	INFD400 INFD630	- 630	315 -	LC1-F400	LR9-F73 75	200/330
200	380	361	400	INFD400 INFD630	- 800	400 -	LC1-F500	LR9-F73 79	300/500
250	460	430	500	INFD630	800	500	LC1-F500	LR9-F73 79	300/500
280	520	475	630	INFD630	800	630	LC1-F630	LR9-F73 81	380/630
300	565	500	630	INFD630	-	630	LC1-F630	LR9-F73 81	380/630
335	610	560	630	INFD630	-	630	LC1-F630	LR9-F73 81	380/630
355	630	590	630	INFD630	-	800	LC1-F630	LR9-F73 81	380/630

[1] INFC for NFC cylindrical ferrule / INFD for NH DIN type fuse-link.
[2] Reversers: replace LC1 with LC2; star-delta starter: replace LC1 with LC3.

Type 2 coordination (IEC 60947-4-1) 380/415 V

Schneider Electric switch-disconnector fuses and contactors

Performance: Ue = 380/415 V - "Iq" 100 kA

Starting Adjustable class 10 A to 30 [4]

Motors				Switch-fuse [1]	Fuse-link type		Contactors [2]	Thermal relays	
P (kW)	I (A) 380 V	I (A) 415 V	Ie Max (A)	Type	gG rating (A)	aM rating (A)	Type	Type	Irth (A)
0.37	1.2	1.1	2	INFC32 or INFD40	4	2	LC1-D09	LTM R08	0.4/8 [3]
0.55	1.6	1.5	2	INFC32 or INFD40	6	2	LC1-D09	LTM R08	0.4/8 [3]
0.75	2	1.8	4	INFC32 or INFD40	10	4	LC1-D09	LTM R08	0.4/8 [3]
1.1	2.8	2.6	4	INFC32 or INFD40	10	4	LC1-D09	LTM R08	0.4/8 [3]
1.5	3.7	3.4	4	INFC32 or INFD40	16	4	LC1-D09	LTM R08	0.4/8 [3]
2.2	5.3	4.8	6	INFC32 or INFD40	16	6	LC1-D09	LTM R08	0.4/8 [3]
3	7	6.5	8	INFC32 or INFD40	20	8	LC1-D09	LTM R08	0.4/8 [3]
4	9	8.2	10	INFC32 or INFD40	25	10	LC1-D12	LTM R27	1.35/27 [3]
5.5	12	11	12	INFC32 or INFD40	32	12	LC1-D18	LTM R27	1.35/27 [3]
7.5	16	14	16	INFC32 or INFD40	40	16	LC1-D25	LTM R27	1.35/27 [3]
10	21	19	25	INFC32 or INFD40	50	25	LC1-D32	LTM R27	1.35/27 [3]
11	23	21	25	INFC32 or INFD40	50	25	LC1-D32	LTM R27	1.35/27 [3]
15	30	28	32	INFC32 or INFD40 INFC63 or INFD40	- 80	32 -	LC1-D40A	LTM R100	5/100 [3]
18.5	37	34	40	INFC50 or INFD40 INFC63 or INFD40	- 80	40 -	LC1-D40A	LTM R100	5/100 [3]
22	43	40	50	INFC50 or INFD63 INFC63 or INFD63	- 100	50 -	LC1-D50A	LTM R100	5/100 [3]
30	59	55	63	INFC63 or INFD63	125	63	LC1-D65A	LTM R100	5/100 [3]
37	72	66	80	INFC125 or INFD160	160	80	LC1-D80	LTM R100	5/100 [3]
45	85	80	80	INFC125 or INFD160 INFD200	- 200	100 -	LC1-D115	LTM R100	5/100 [3]
55	105	100	115	INFC125 or INFD160 INFD200	- 200	125 -	LC1-D115	LTM R08	On CT
75	140	135	150	INFD160 INFD200	- 250	160 -	LC1-D150	LTM R08	On CT
90	170	160	185	INFD200 INFD250	- 355	200 -	LC1-D265	LTM R08	On CT
110	210	200	225	INFD250 INFD400	- 400	250 -	LC1-F330	LTM R08	On CT
132	250	230	250	INFD250 INFD400	- 450	250 -	LC1-F330	LTM R08	On CT
160	300	270	315	INFD400 INFD630	- 630	315 -	LC1-F400	LTM R08	On CT
200	380	361	400	INFD400 INFD630	- 800	400 -	LC1-F500	LTM R08	On CT
250	460	430	500	INFD630	800	500	LC1-F500	LTM R08	On CT
280	520	475	630	INFD630	800	630	LC1-F630	LTM R08	On CT
300	565	500	630	INFD630	-	630	LC1-F630	LTM R08	On CT
335	610	560	630	INFD630	-	630	LC1-F630	LTM R08	On CT
355	630	590	630	INFD630	-	800	LC1-F630	LTM R08	On CT

[1] INFC for NFC cylindric ferrule / INFD for NH DIN type fuse-link.
[2] Reversers: replace LC1 with LC2; star-delta starter: replace LC1 with LC3.
[3] Currents transformers built-in electronic relays.
[4] For use with overload relay setted in class 20 and 30, apply respectively a derating of 20 % and 37 %.

Type 2 coordination (IEC 60947-4-1) 440 V

Schneider Electric switch-disconnector fuses and contactors

Performance: Ue = 440 V [3] - "Iq" 100 kA

Starting Class 10 A/10

Motors			Switch-fuse [1]	Fuse-link type		Contactors [2]	Thermal relays	
P (kW)	I (A) 440 V	Ie Max (A)	Type	gG rating (A)	aM rating (A)	Type	Type	Irth (A)
0.37	1	1.6	INFC32 or INFD40	4	2	LC1-D09	LRD 06	1/1.6
0.55	1.4	1.6	INFC32 or INFD40	6	2	LC1-D09	LRD 06	1/1.6
0.75	1.9	2.5	INFC32 or INFD40	6	2	LC1-D09	LRD 07	1.6/2.5
1.1	2.4	2.5	INFC32 or INFD40	10	4	LC1-D09	LRD 07	1.6/2.5
1.5	3.3	4	INFC32 or INFD40	10	4	LC1-D09	LRD 08	2.5/4
2.2	4.7	6	INFC32 or INFD40	16	6	LC1-D09	LRD 10	4/6
3	6.1	6	INFC32 or INFD40	16	6	LC1-D09	LRD 10	4/6
4	7.9	8	INFC32 or INFD40	20	8	LC1-D09	LRD 12	5.5/8
5.5	10.4	10	INFC32 or INFD40	25	10	LC1-D12	LRD 16	9/13
7.5	14	16	INFC32 or INFD40	40	16	LC1-D18	LRD 21	12/18
11	20	20	INFC32 or INFD40 INFC50 or INFD40	- 50	20 -	LC1-D25	LRD 22	16/24
15	26	32	INFC32 or INFD40 INFC63 or INFD40	- 63	32 -	LC1-D32	LRD 32	23/32
18.5	33	40	INFC50 or INFD40 INFC63 or INFD40	- 80	40 -	LC1-D40A	LRD 340	30/40
22	39	50	INFC50 or INFD63 INFC63 or INFD63	- 100	50 -	LC1-D50A	LRD 340	30/40
30	52	63	INFC50 or INFD63 INFC63 or INFD63	- 125	63 -	LC1-D65A	LRD 365	48/65
37	65	65	INFC125 or INFD160 INFD160	- 160	80 -	LC1-D80	LRD 3359	48/65
45	75	80	INFC125 or INFD160 INFD160	- 160	80 -	LC1-D80	LRD 3363	63/80
55	92	100	INFC125 or INFD160 INFD160	- 200	100 -	LC1-D115	LR9-D53 67	60/100
75	128	125	INFD160 INFD200	- 250	125 -	LC1-D150	LR9-D53 69	90/150
90	155	150	INFD160 INFD250	- 315	160 -	LC1-D185	LR9-D53 69	90/150
110	185	200	INFD200 INFD250	- 355	200 -	LC1-F265	LR9-F53 71	132/220
132	213	220	INFD250 INFD400	- 400	250 -	LC1-F265	LR9-F53 71	132/220
160	259	315	INFD400	500	315	LC1-F330	LR9-F73 75	200/330
200	338	330	INFD400 INFD630	- 630	355 -	LC1-F400	LR9-F73 75	200/330
250	423	400	INFD630	800	400	LC1-F500	LR9-F73 79	300/500
280	460	450	INFD630	800	450	LC1-F500	LR9-F73 79	300/500
300	495	500	INFD630	800	500	LC1-F500	LR9-F73 79	300/500
355	560	630	INFD630	-	630	LC1-F630	LR9-F73 81	380/630
375	575	630	INFD630	-	630	LC1-F630	LR9-F73 81	380/630
400	611	630	INFD630	-	800	LC1-F630	LR9-F73 81	380/630

[1] INFC for NFC cylindric ferrule / INFD for NH DIN type fuse-link.
[2] Reversers: replace LC1 with LC2; star-delta starter: replace LC1 with LC3.
[3] Valid for 480V NEMA network.

Type 2 coordination (IEC 60947-4-1) 440 V

Schneider Electric switch-disconnector fuses and contactors

Performance: Ue = 440 V [5] - "Iq" 100 kA

Starting Adjustable class 10 A to 30 [4]

Motors			Switch-fuse [1]	Fuse-link type		Contactors [2]	Thermal relays	
P (kW)	I (A) 440 V	Ie Max (A)	Type	gG rating (A)	aM rating (A)	Type	Type	Irth (A)
0.37	1	2	INFC32 or INFD40	4	2	LC1-D09	LTM R08	0.4/8 [3]
0.55	1.4	2	INFC32 or INFD40	6	2	LC1-D09	LTM R08	0.4/8 [3]
0.75	1.8	2	INFC32 or INFD40	6	2	LC1-D09	LTM R08	0.4/8 [3]
1.1	2.4	4	INFC32 or INFD40	10	4	LC1-D09	LTM R08	0.4/8 [3]
1.5	3.3	4	INFC32 or INFD40	10	4	LC1-D09	LTM R08	0.4/8 [3]
2.2	4.7	6	INFC32 or INFD40	16	6	LC1-D09	LTM R08	0.4/8 [3]
3	6.1	6	INFC32 or INFD40	16	6	LC1-D09	LTM R08	0.4/8 [3]
4	7.9	8	INFC32 or INFD40	20	8	LC1-D09	LTM R08	0.4/8 [3]
5.5	10.4	10	INFC32 or INFD40	25	10	LC1-D12	LTM R27	1.35/27 [3]
7.5	14	16	INFC32 or INFD40	40	16	LC1-D18	LTM R27	1.35/27 [3]
11	20	20	INFC32 or INFD40 INFC50 or INFD40	- 50	20 -	LC1-D25	LTM R27	1.35/27 [3]
15	26	27	INFC32 or INFD40 INFC63 or INFD40	- 63	32 -	LC1-D32	LTM R27	1.35/27 [3]
18.5	33	40	INFC50 or INFD40 INFC63 or INFD40	- 80	40 -	LC1-D40A	LTM R100	5/100 [3]
22	39	50	INFC50 or INFD63 INFC63 or INFD63	- 100	50 -	LC1-D50A	LTM R100	5/100 [3]
30	52	63	INFC50 or INFD63 INFC63 or INFD63	- 125	63 -	LC1-D63A	LTM R100	5/100 [3]
37	65	80	INFC125 or INFD160 INFD160	- 160	80 -	LC1-D80	LTM R100	5/100 [3]
45	75	80	INFC125 or INFD160 INFD160	- 160	80 -	LC1-D80	LTM R100	5/100 [3]
55	92	100	INFC125 or INFD160 INFD160	- 200	100 -	LC1-D115	LTM R100	5/100 [3]
75	128	125	INFD160 INFD200	- 250	125 -	LC1-D150	LTM R08	On CT
90	155	160	INFD160 INFD250	- 315	160 -	LC1-F185	LTM R08	On CT
110	185	200	INFD200 INFD250	- 355	200 -	LC1-F265	LTM R08	On CT
132	213	250	INFD250 INFD400	- 400	250 -	LC1-F265	LTM R08	On CT
160	259	315	INFD400	500	315	LC1-F330	LTM R08	On CT
200	338	355	INFD400 INFD630	- 630	355 -	LC1-F400	LTM R08	On CT
250	423	400	INFD630	800	400	LC1-F500	LTM R08	On CT
280	460	450	INFD630	800	450	LC1-F500	LTM R08	On CT
300	495	500	INFD630	800	500	LC1-F500	LTM R08	On CT
355	560	630	INFD630	-	630	LC1-F630	LTM R08	On CT
375	575	630	INFD630	-	630	LC1-F630	LTM R08	On CT
400	611	630	INFD630	-	800	LC1-F630	LTM R08	On CT

[1] INFC for NFC cylindric ferrule / INFD for NH DIN type fuse-link.
[2] Reversers: replace LC1 with LC2; star-delta starter: replace LC1 with LC3.
[3] Currents transformers built-in electronic relays.
[4] For use with overload relay setted in class 20 and 30, apply respectively a derating of 20 % and 37 %.
[5] Valid for 480 V NEMA network.

Type 2 coordination (IEC 60947-4-1) 500 V

Schneider Electric switch-disconnector fuses and contactors

Performance: Ue = 500 V - "Iq" 100 kA

Starting Class 10 A/10

Motors			Switch-fuse [1]	Fuse-link type		Contactors [2]	Thermal relays	
P (kW)	I (A) 500 V	Ie Max (A)	Type	gG rating (A)	aM rating (A)	Type	Type	Irth (A)
0.37	0.8	1	INFC32 or INFD40	4	2	LC1-D09	LRD 05	0.63/1
0.55	1.2	1.6	INFC32 or INFD40	4	2	LC1-D09	LRD 06	1/1.6
0.75	1.5	1.6	INFC32 or INFD40	6	2	LC1-D09	LRD 06	1/1.6
1.1	2	2	INFC32 or INFD40	6	2	LC1-D09	LRD 07	1.6/2.5
1.5	2.8	4	INFC32 or INFD40	10	4	LC1-D09	LRD 08	2.5/4
2.2	3.8	4	INFC32 or INFD40	10	4	LC1-D09	LRD 08	2.5/4
3	5	6	INFC32 or INFD40	16	6	LC1-D09	LRD 10	4/6
4	6.5	8	INFC32 or INFD40	20	8	LC1-D09	LRD 12	5.5/8
5.5	9	10	INFC32 or INFD40	25	10	LC1-D12	LRD 16	9/13
7.5	12	12	INFC32 or INFD40	32	12	LC1-D18	LRD 16	9/13
10	15	16	INFC32 or INFD40	32	16	LC1-D25	LRD 21	12/18
11	18.4	20	INFC32 or INFD40	40	20	LC1-D25	LRD 22	16/24
15	23	24	INFC32 or INFD40 INFC63 or INFD40	- 50	25 -	LC1-D32	LRD 22	16/24
18.5	28.5	32	INFC50 or INFD40 INFC63 or INFD40	- 63	32 -	LC1-D32	LRD 32	23/32
22	33	40	INFC50 or INFD40 INFC63 or INFD40	- 80	40 -	LC1-D40A	LRD 340	30/40
30	45	50	INFC63 or INFD63	100	50	LC1-D50A	LRD 350	37/50
37	55	63	INFC63 or INFD63	100	63	LC1-D65A	LRD 365	48/65
45	65	70	INFC125 or INFD160 INFD160	- 160	80 -	LC1-D80	LRD 3361	55/70
55	75	80	INFC125 or INFD160 INFD160	- 160	80 -	LC1-D115	LRD 3363	63/80
75	105	115	INFD160 INFD200	- 200	125 -	LC1-D115	LR9-D53 69	90/150
90	130	150	INFD160 INFD200	 250	160	LC1-D150	LR9-D53 69	90/150
110	156	160	INFD200 INFD250	- 315	160 -	LC1-F185	LR9-F53 71	132/220
132	187	200	INFD250	355	200	LC1-F265	LR9-F53 71	132/220
160	230	250	INFD400	400	250	LC1-F265	LR9-F73 75	200/330
200	280	315	INFD400	450	315	LC1-F400	LR9-F73 75	200/330
240	338	355	INFD630	630	355	LC1-F400	LR9-F73 79	300/500
280	386	400	INFD630	800	400	LC1-F500	LR9-F73 79	300/500
300	415	450	INFD630	800	450	LC1-F500	LR9-F73 79	300/500
320	425	450	INFD630	800	450	LC1-F500	LR9-F73 79	300/500
355	478	500	INFD630	800	500	LC1-F500	LR9-F73 79	300/500
375	482	500	INFD630	-	500	LC1-F630	LR9-F73 81	380/630
400	534	500	INFD630	-	630	LC1-F630	LR9-F73 81	380/630
450	630	630	INFD630	-	630	LC1-F630	LR9-F73 81	380/630

[1] INFC for NFC cylindric ferrule / INFD for NH DIN type fuse-link.
[2] Reversers: replace LC1 with LC2 ; start-delta starter: replace LC1 with LC3.

Note: proposed fuses are based on 4 poles 50 Hz induction motors direct on line start Id/In y 7 for 10 sec.
The choice of fuses and overload relay shall be checked according to the actual motor's caracteristic.

Type 2 coordination (IEC 60947-4-1) 500 V

Schneider Electric switch-disconnector fuses and contactors

Performance: Ue = 500 V - "Iq" 100 kA

Starting Adjustable class 10 A to 30 [4]

Motors			Switch-fuse [1]	Fuse-link type		Contactors [2]	Thermal relays	
P (kW)	I (A) 500 V	Ie Max (A)	Type	gG rating (A)	aM rating (A)	Type	Type	Irth (A)
0.37	0.8	1	INFC32 or INFD40	4	2	LC1-D09	LTM R08	0.4/8 [3]
0.55	1.2	1.6	INFC32 or INFD40	4	2	LC1-D09	LTM R08	0.4/8 [3]
0.75	1.5	1.6	INFC32 or INFD40	6	2	LC1-D09	LTM R08	0.4/8 [3]
1.1	2	2	INFC32 or INFD40	6	2	LC1-D09	LTM R08	0.4/8 [3]
1.5	2.8	4	INFC32 or INFD40	10	4	LC1-D09	LTM R08	0.4/8 [3]
2.2	3.8	4	INFC32 or INFD40	10	4	LC1-D09	LTM R08	0.4/8 [3]
3	5	6	INFC32 or INFD40	16	6	LC1-D09	LTM R08	0.4/8 [3]
4	6.5	8	INFC32 or INFD40	20	8	LC1-D09	LTM R08	0.4/8 [3]
5.5	9	10	INFC32 or INFD40	25	10	LC1-D25	LTM R27	1.35/27 [3]
7.5	12	12	INFC32 or INFD40	32	12	LC1-D25	LTM R27	1.35/27 [3]
10	15	16	INFC32 or INFD40	32	16	LC1-D25	LTM R27	1.35/27 [3]
11	18.4	20	INFC32 or INFD40	40	20	LC1-D25	LTM R27	1.35/27 [3]
15	23	24	INFC32 or INFD40 INFC63 or INFD40	- 50	25 -	LC1-D32	LTM R27	1.35/27 [3]
18.5	28.5	32	INFC50 or INFD40 INFC63 or INFD40	- 63	32 -	LC1-D32	LTM R100	5/100 [3]
22	33	40	INFC50 or INFD40 INFC63 or INFD40	- 80	40 -	LC1-D40A	LTM R100	5/100 [3]
30	45	50	INFC63 or INFD63	100	50	LC1-D50A	LTM R100	5/100 [3]
37	55	63	INFC63 or INFD63	100	63	LC1-D65A	LTM R100	5/100 [3]
45	65	70	INFC125 or INFD160 INFD160	- 160	80 -	LC1-D80	LTM R100	5/100 [3]
55	75	80	INFC125 or INFD160 INFD160	- 160	80 -	LC1-D115	LTM R100	5/100 [3]
75	105	115	INFD160 INFD200	- 200	125 -	LC1-D115	LTM R08	On CT
90	130	150	INFD160 INFD200	- 250	160 -	LC1-D150	LTM R08	On CT
110	156	160	INFD200 INFD250	- 315	160 -	LC1-F185	LTM R08	On CT
132	187	200	INFD250	355	200	LC1-F265	LTM R08	On CT
160	230	250	INFD400	400	250	LC1-F265	LTM R08	On CT
200	280	315	INFD400	450	315	LC1-F400	LTM R08	On CT
240	338	355	INFD630	630	355	LC1-F400	LTM R08	On CT
280	386	400	INFD630	800	400	LC1-F500	LTM R08	On CT
300	415	450	INFD630	800	450	LC1-F500	LTM R08	On CT
320	425	450	INFD630	800	450	LC1-F500	LTM R08	On CT
355	478	500	INFD630	800	500	LC1-F500	LTM R08	On CT
375	482	500	INFD630	-	500	LC1-F630	LTM R08	On CT
400	534	500	INFD630	-	630	LC1-F630	LTM R08	On CT
450	630	630	INFD630	-	630	LC1-F630	LTM R08	On CT

[1] INFC for NFC cylindric ferrule / INFD for NH DIN type fuse-link.
[2] Reversers: replace LC1 with LC2; star-delta starter: replace LC1 with LC3.
[3] Currents transformers built-in electronic relays.
[4] For use with overload relay setted in class 20 and 30, apply respectively a derating of 20 % and 37 %.

Type 2 coordination (IEC 60947-4-1) 525/550 V

Schneider Electric switch-disconnector fuses and contactors

Performance: Ue = 525/550 V - "Iq" 80/100 kA [1]

Starting Class 10 A/10

Motors				Switch-fuse [1]	Fuse-link type		Contactors [2]	Thermal relays	
P (kW)	I (A) 525 V	I (A) 550 V	Ie Max (A)	Type	gG rating (A)	aM rating (A)	Type	Type	Irth (A)
0.37	0.8	0.8	1	INFC32 or INFD40	-	2	LC1-D09	LRD 05	0.63/1
				INFC63 or INFD40	4	-			
0.55	1.2	1.1	1.6	INFC32 or INFD40	-	2	LC1-D09	LRD 06	1/1.6
				INFC63 or INFD40	4	-			
0.75	1.5	1.4	1.6	INFC32 or INFD40	-	2	LC1-D09	LRD 06	1/1.6
				INFC63 or INFD40	6	-			
1.1	2	2.1	2.5	INFC32 or INFD40	-	2	LC1-D09	LRD 07	1.6/2.5
				INFC63 or INFD40	6	-			
1.5	2.8	2.8	4	INFC32 or INFD40	-	4	LC1-D09	LRD 08	2.5/4
				INFC63 or INFD40	10	-			
2.2	3.8	3.7	4	INFC32 or INFD40	-	4	LC1-D09	LRD 08	2.5/4
				INFC63 or INFD40	10	-			
3	5	4.9	6	INFC32 or INFD40	-	6	LC1-D09	LRD 10	4/6
				INFC63 or INFD40	16	-			
4	6.5	6.5	8	INFC32 or INFD40	-	8	LC1-D09	LRD 12	5.5/8
				INFC63 or INFD40	20	-			
5.5	9	8.7	10	INFC32 or INFD40	-	10	LC1-D25	LRD 16	9/13
				INFC63 or INFD40	25	-			
7.5	12	11.8	12	INFC32 or INFD40	-	12	LC1-D25	LRD 16	9/13
				INFC63 or INFD40	32	-			
10	15	15.2	16	INFC32 or INFD40	-	16	LC1-D25	LRD 21	12/18
				INFC63 or INFD40	32	-			
11	18.4	16.7	24	INFC32 or INFD40	-	20	LC1-D25	LRD 22	16/24
				INFC63 or INFD40	40	-			
15	23	21.9	24	INFC32 or INFD40	-	25	LC1-D32	LRD 22	16/24
				INFC63 or INFD40	50	-			
18.5	28.5	26.6	32	INFC63 or INFD40	63	32	LC1-D32	LRD 32	23/32
22	33	31	40	INFC63 or INFD40	-	40	LC1-D40A	LRD 340	30/40
				INFC63 or INFD63	80	-			
30	45	43	50	INFC63 or INFD63	-	50	LC1-D50A	LRD 350	37/50
				INFD160	100	-			
37	55	50	63	INFC63 or INFD63	-	63	LC1-D65A	LRD 365	48/65
				INFD160	100	-			
45	65	61	70	INFC63 or INFD63	-	63	LC1-D80	LRD 3361	55/70
				INFD160	125	-			
55	75	74	80	INFC63 or INFD160	-	80	LC1-D115	LRD 3363	63/80
				INFD200	160	-			
75	105	101	115	INFD160	-	100	LC1-D115	LR9-D53 69	90/150
				INFD250	200	-			
90	130	123	125	INFD160	-	125	LC1-D150	LR9-D53 69	90/150
				INFD400	250	-			
110	156	147	160	INFD250	-	160	LC1-F185	LR9-F53 71	132/220
				INFD400	250	-			
132	187	178	200	INFD250	-	200	LC1-F265	LR9-F53 71	132/220
				INFD630	355	-			
160	214	204	250	INFD250	-	250	LC1-F265	LR9-F73 75	200/330
				INFD630	400	-			
200	266	254	315	INFD400	-	315	LC1-F400	LR9-F73 75	200/330
				INFD630	450	-			
240	321	307	355	INFD400	-	355	LC1-F400	LR9-F73 79	300/500
280	366	350	400	INFD400	-	400	LC1-F500	LR9-F73 79	300/500
300	394	376	400	INFD400	-	400	LC1-F500	LR9-F73 79	300/500
320	413	394	450	INFD630	-	450	LC1-F500	LR9-F73 79	300/500
355	464	443	500	INFD630	-	500	LC1-F500	LR9-F73 79	300/500
375	490	467	500	INFD630	-	500	LC1-F630	LR9-F73 81	380/630

[1] Coordination chart built with 690 V fuse-links (80 kA for NFC fuse-links, 100 kA for DIN fuse-link).
[2] INFC for NFC cylindric ferrule / INFD for NH DIN type fuse-link.
[3] Reversers: replace LC1 with LC2; star-delta starter: replace LC1 with LC3.

Type 2 coordination (IEC 60947-4-1) 525/550 V

Schneider Electric switch-disconnector fuses and contactors

Performance: Ue = 525/550 V - "Iq" 80/100 kA [1]

Starting Adjustable class 10 A to 30 [4]

Motors				Switch-fuse [1]	Fuse-link type		Contactors [2]	Thermal relays	
P (kW)	I (A) 525 V	I (A) 550 V	Ie Max (A)	Type	gG rating (A)	aM rating (A)	Type	Type	Irth (A)
0.37	0.8	0.8	2	INFC32 or INFD40	-	2	LC1-D09	LTM R08	0.4/8 [5]
				INFC63 or INFD40	4	-			
0.55	1.2	1.1	2	INFC32 or INFD40	-	2	LC1-D09	LTM R08	0.4/8 [5]
				INFC63 or INFD40	4	-			
0.75	1.5	1.4	2	INFC32 or INFD40	-	2	LC1-D09	LTM R08	0.4/8 [5]
				INFC63 or INFD40	6	-			
1.1	2	2.1	2	INFC32 or INFD40	-	2	LC1-D09	LTM R08	0.4/8 [5]
				INFC63 or INFD40	6	-			
1.5	2.8	2.8	4	INFC32 or INFD40	-	4	LC1-D09	LTM R08	0.4/8 [5]
				INFC63 or INFD40	10	-			
2.2	3.8	3.7	4	INFC32 or INFD40	-	4	LC1-D09	LTM R08	0.4/8 [5]
				INFC63 or INFD40	10	-			
3	5	4.9	6	INFC32 or INFD40		6	LC1-D09	LTM R08	0.4/8 [5]
				INFC63 or INFD40	16	-			
4	6.5	6.5	8	INFC32 or INFD40	-	8	LC1-D09	LTM R08	0.4/8 [5]
				INFC63 or INFD40	20	-			
5.5	9	8.7	10	INFC32 or INFD40	-	10	LC1-D25	LTM R27	1.35/27 [5]
				INFC63 or INFD40	25	-			
7.5	12	11.8	12	INFC32 or INFD40	-	12	LC1-D25	LTM R27	1.35/27 [5]
				INFC63 or INFD40	32	-			
10	15	15.2	16	INFC32 or INFD40	-	16	LC1-D25	LTM R27	1.35/27 [5]
				INFC63 or INFD40	32	-			
11	18.4	16.7	20	INFC32 or INFD40	-	20	LC1-D25	LTM R27	1.35/27 [5]
				INFC63 or INFD40	40	-			
15	23	21.9	25	INFC32 or INFD40	-	25	LC1-D32	LTM R27	1.35/27 [5]
				INFC63 or INFD40	50	-			
18.5	28.5	26.6	32	INFC63 or INFD40	63	32	LC1-D32	LTM R100	5/100 [5]
22	33	31	40	INFC63 or INFD40	-	40	LC1-D40A	LTM R100	5/100 [5]
				INFC63 or INFD63	80	-			
30	45	43	50	INFC63 or INFD63	-	50	LC1-D50A	LTM R100	5/100 [5]
				INFD160	100	-			
37	55	50	63	INFC63 or INFD63	-	63	LC1-D65A	LTM R100	5/100 [5]
				INFD160	100	-			
45	65	61	63	INFC63 or INFD63	-	63	LC1-D80	LTM R100	5/100 [5]
				INFD160	125	-			
55	75	74	80	INFC63 or INFD160	-	80	LC1-D115	LTM R100	5/100 [5]
				INFD200	160	-			
75	105	101	100	INFD160	-	100	LC1-D115	LTM R08	On CT
				INFD250	200	-			
90	130	123	125	INFD160	-	125	LC1-D150	LTM R08	On CT
				INFD400	250	-			
110	156	147	160	INFD250	-	160	LC1-F185	LTM R08	On CT
				INFD400	250	-			
132	187	178	200	INFD250	-	200	LC1-F265	LTM R08	On CT
				INFD630	355	-			
160	214	204	250	INFD250	-	250	LC1-F265	LTM R08	On CT
				INFD630	400	-			
200	266	254	315	INFD400	-	315	LC1-F400	LTM R08	On CT
				INFD630	450	-			
240	321	307	355	INFD400	-	355	LC1-F400	LTM R08	On CT
280	366	350	400	INFD400	-	400	LC1-F500	LTM R08	On CT
300	394	376	400	INFD400	-	400	LC1-F500	LTM R08	On CT
320	413	394	450	INFD630	-	450	LC1-F500	LTM R08	On CT
355	464	443	500	INFD630	-	500	LC1-F500	LTM R08	On CT
375	490	467	500	INFD630	-	500	LC1-F630	LTM R08	On CT

[1] Coordination chart built with 690 V fuse-links (80 kA for NFC fuse-links, 100 kA for DIN fuse-link).
[2] INFC for NFC cylindric ferrule / INFD for NH DIN type fuse-link.
[3] Reversers: replace LC1 with LC2; star-delta starter: replace LC1 with LC3.
[4] For use with overload relay setted in class 20 and 30, apply respectively a derating of 20 % and 37 %.
[5] Currents transformers built-in electronic relays.

Type 2 coordination (IEC 60947-4-1) 660/690 V

Schneider Electric switch-disconnector fuses and contactors

Performance: Ue = 660/690 V - "Iq" 80/100 kA [1]

Starting Class 10 A/10

Motors			Switch-fuse [1]	Fuse-link type		Contactors [2]	Thermal relays	
P (kW)	I (A) 690 V	Ie Max (A)	Type	gG rating (A)	aM rating (A)	Type	Type	Irth (A)
0.75	1.1	1.6	INFC32 or INFD40	-	2	LC1-D09	LRD 06	1/1.6
			INFC63 or INFD40	4	-			
1	1.6	1.6	INFC32 or INFD40	-	2	LC1-D09	LRD 06	1/1.6
			INFC63 or INFD40	6	-			
1.5	2.2	2.5	INFC32 or INFD40	-	4	LC1-D09	LRD 07	1.6/2.5
			INFC63 or INFD40	6	-			
2.2	2.8	4	INFC32 or INFD40	-	4	LC1-D09	LRD 08	2.5/4
			INFC63 or INFD40	10	-			
3	3.8	4	INFC32 or INFD40	-	6	LC1-D09	LRD 08	2.5/4
			INFC63 or INFD40	10	-			
4	4.9	6	INFC32 or INFD40	-	6	LC1-D09	LRD 10	4/6
			INFC63 or INFD40	16	-			
5.5	6.7	8	INFC32 or INFD40	-	8	LC1-D09	LRD 12	5.5/8
			INFC63 or INFD40	20	-			
7.5	8.9	10	INFC32 or INFD40	-	10	LC1-D25	LRD 16	9/13
			INFC63 or INFD40	25	-			
11	12.8	13	INFC32 or INFD40	-	16	LC1-D25	LRD 16	9/13
			INFC63 or INFD40	32	-			
15	17	20	INFC32 or INFD40	-	20	LC1-D25	LRD 22	16/24
			INFC63 or INFD40	40	-			
18.5	22	24	INFC32 or INFD40	-	25	LC1-D32	LRD 22	16/24
			INFC63 or INFD40	50	-			
22	24	32	INFC32 or INFD40	-	25	LC1-D40A	LRD 332	23/32
			INFC63 or INFD40	50	-			
30	32	32	INFC63 or INFD40	-	32	LC1-D40A	LRD 340	30/40
			INFC63 or INFD63	80	-			
37	39	40	INFC63 or INFD63	80	40	LC1-D65A	LRD 365	37/50
45	47	50	INFC63 or INFD63	-	50	LC1-D80	LRD 3357	37/50
			INFD160	100	-			
55	57	63	INFC63 or INFD63	-	63	LC1-D115	LRD 3359	48/65
			INFD160	125	-			
75	77	80	INFC125 or INFD160	-	80	LC1-D115	LRD 3363	63/80
			INFD200	160	-			
90	93	100	INFD160	-	100	LC1-D150	LR9-D53 69	90/150
			INFD250	200	-			
110	113	125	INFD160	-	125	LC1-F185	LR9-D53 69	90/150
			INFD250	250	-			
132	134	160	INFD250	250	160	LC1-F265	LR9-F53 71	132/220
160	162	160	INFD250	-	160	LC1-F265	LR9-F53 71	132/220
			INFD400	315	-			
200	203	200	INFD250	-	200	LC1-F400	LR9-F73 75	200/330
			INFD630	400	-			
220	223	250	INFD250	-	250	LC1-F400	LR9-F73 75	200/330
			INFD630	450	-			
250	253	315	INFD400	-	315	LC1-F400	LR9-F73 75	200/330
			INFD630	500	-			
315	320	355	INFD630	-	355	LC1-F500	LR9-F73 79	300/500
355	354	400	INFD630	-	400	LC1-F630	LR9-F73 79	300/500
400	400	450	INFD630	-	450	LC1-F630	LR9-F73 79	300/500
450	455	500	INFD630	-	500	LC1-F630	LR9-F73 79	300/500

[1] Coordination chart built with 690 V fuse-links (80 kA for NFC fuse-links, 100 kA for DIN fuse-link).
[2] INFC for NFC cylindric ferrule / INFD for NH DIN type fuse-link.
[3] Reversers: replace LC1 with LC2; star-delta starter: replace LC1 with LC3.

Type 2 coordination (IEC 60947-4-1) 660/690 V

Schneider Electric switch-disconnector fuses and contactors

Performance: Ue = 660/690 V - "Iq" 80/100 kA [1]

Starting Adjustable class 10 A to 30 [4]

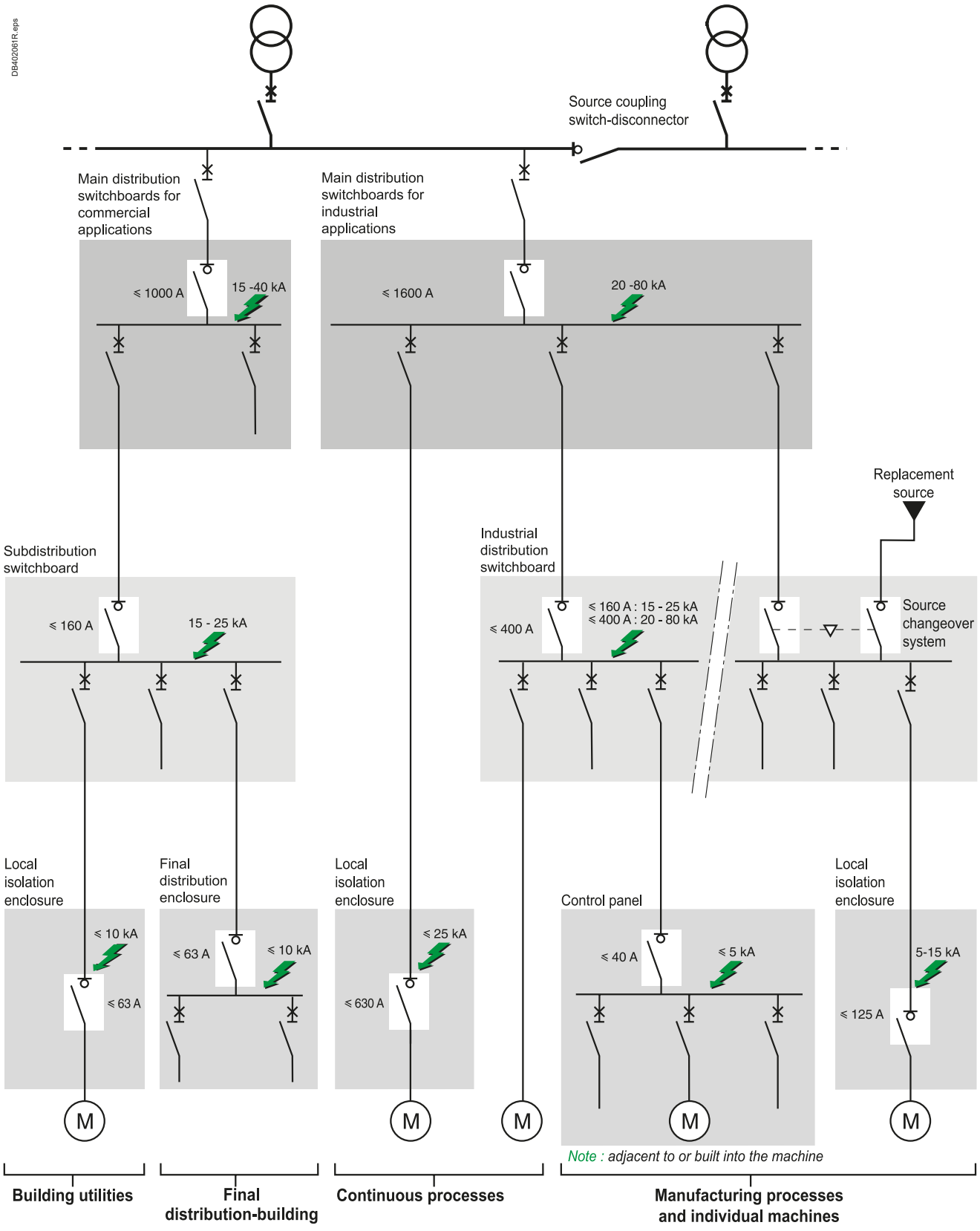
Motors			Switch-fuse [1]	Fuse-link type		Contactors [2]	Thermal relays	
P (kW)	I (A) 690 V	Ie Max (A)	Type	gG rating (A)	aM rating (A)	Type	Type	Irth (A)
0.75	1.1	2	INFC32 or INFD40	-	2	LC1-D09	LTM R08	0.4/8 [5]
			INFC63 or INFD40	4	-			
1	1.6	2	INFC32 or INFD40	-	2	LC1-D09	LTM R08	0.4/8 [5]
			INFC63 or INFD40	6	-			
1.5	2.2	4	INFC32 or INFD40	-	4	LC1-D09	LTM R08	0.4/8 [5]
			INFC63 or INFD40	6	-			
2.2	2.8	4	INFC32 or INFD40	-	4	LC1-D09	LTM R08	0.4/8 [5]
			INFC63 or INFD40	10	-			
3	3.8	6	INFC32 or INFD40	-	6	LC1-D09	LTM R08	0.4/8 [5]
			INFC63 or INFD40	10	-			
4	4.9	6	INFC32 or INFD40	-	6	LC1-D09	LTM R08	0.4/8 [5]
			INFC63 or INFD40	16	-			
5.5	6.7	8	INFC32 or INFD40	-	8	LC1-D09	LTM R08	0.4/8 [5]
			INFC63 or INFD40	20	-			
7.5	8.9	10	INFC32 or INFD40	-	10	LC1-D25	LTM R27	1.35/27 [5]
			INFC63 or INFD40	25	-			
11	12.8	16	INFC32 or INFD40	-	16	LC1-D25	LTM R27	1.35/27 [5]
			INFC63 or INFD40	32	-			
15	17	20	INFC32 or INFD40	-	20	LC1-D25	LTM R27	1.35/27 [5]
			INFC63 or INFD40	40	-			
18.5	22	25	INFC32 or INFD40	-	25	LC1-D32	LTM R27	1.35/27 [5]
			INFC63 or INFD40	50	-			
22	24	25	INFC32 or INFD40	-	25	LC1-D40A	LTM R27	1.35/27 [5]
			INFC63 or INFD40	50	-			
30	32	32	INFC63 or INFD40	-	32	LC1-D40A	LTM R100	5/100 [5]
			INFC63 or INFD63	80	-			
37	39	40	INFC63 or INFD63	80	40	LC1-D65A	LTM R100	5/100 [5]
45	47	50	INFC63 or INFD63	-	50	LC1-D80	LTM R100	5/100 [5]
			INFD160	100	-			
55	57	63	INFC63 or INFD63	-	63	LC1-D115	LTM R100	5/100 [5]
			INFD160	125	-			
75	77	80	INFC125 or INFD160	-	80	LC1-D115	LTM R100	5/100 [5]
			INFD200	160	-			
90	93	100	INFD160	-	100	LC1-D150	LTM R100	5/100 [5]
			INFD250	200	-			
110	113	125	INFD160	-	125	LC1-F185	LTM R08	On CT
			INFD250	250	-			
132	134	160	INFD200	-	160	LC1-F265	LTM R08	On CT
			INFD250	250	-			
160	162	160	INFD200	-	160	LC1-F265	LTM R08	On CT
			INFD400	315	-			
200	203	200	INFD200	-	200	LC1-F400	LTM R08	On CT
			INFD630	400	-			
220	223	250	INFD250	-	250	LC1-F400	LTM R08	On CT
			INFD630	450	-			
250	253	315	INFD400	-	315	LC1-F400	LTM R08	On CT
			INFD630	500	-			
315	320	355	INFD400	-	355	LC1-F500	LTM R08	On CT
355	354	400	INFD400	-	400	LC1-F630	LTM R08	On CT
400	400	450	INFD630	-	450	LC1-F630	LTM R08	On CT
450	455	500	INFD630	-	500	LC1-F630	LTM R08	On CT

[1] Coordination chart built with 690 V fuse-links (80 kA for NFC fuse-links, 100 kA for DIN fuse-link).
[2] INFC for NFC cylindric ferrule / INFD for NH DIN type fuse-link.
[3] Reversers: replace LC1 with LC2; star-delta starter: replace LC1 with LC3.
[4] For use with overload relay setted in class 20 and 30, apply respectively a derating of 20 % and 37 %.
[5] Currents transformers built-in electronic relays.

Use of LV switches

Presentation

Functions performed by switch



Use of LV switches
Presentation

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Functions and positions of LV switches

Switches are necessary in different level of low voltage installation for the following main applications :

- functional switching
- supplying installation from different sources (transfert-switching equipment)
- starting stopping equipements
- emergency switching
- switching off and disconnection for isolation of one circuit or switchboard for maintenance.

IEC 60364-5-53 Electrical installations of buildings – Part 5-53: Selection and erection of electrical equipment

Isolation, switching and control standard provides requirement for isolation of circuits, functional switching, and emergency switching.

IEC 60204-1 Safety of machinery - Electrical equipment of machines - Part 1: General requirements

standard provides requirements for disconnection of machines.

“Suitability for isolation” is necessary to ensure people safety in open position.

Suitable for isolation

Switch-disconnector

“Isolation” function i.e disconnection from supply is required for all circuits or equipement in order to guarantee the safety of people during repairs or maintenance.

Low voltage electrical installation standards (IEC 60364 series for example) provide requirements to ensure properly this function:

Device for isolation shall:

- isolate all live conductors (including neutral but not PEN)
- withstand specified impulse voltage in open position
- have a leakage current below specified values in open position
- be lockable in the “open” position so as to prevent any risk of unvolontary reclosing
- ensure that the isolating distance between open contacts of the device is visible or be clearly and reliably indicated by “off” or “open” marking.

These requirements are totally covered with devices compliant to IEC 60947-1/2/3 suitable for isolation.

This characteristics is clearly marked on product by the symbol of switch-disconnector.

Switch-disconnector standards and characteristics

IEC60947-3 Low-voltage switchgear and controlgear – Part 3:
Switches, disconnectors and fuse-combination units specifies the performances and test of switch-disconnector. The main characteristics of an industrial switch-disconnector are:

- Rated and limiting values for the main circuit: voltage, current, short time withstand in case of short circuit, making current in case of switch on-to short-circuit, rated conditional short-circuit with a specified short-circuit protection.
- Utilization category (for a switching device or a fuse) is a “combination of specified requirements related to the conditions in which the switching device or the fuse fulfils its purpose, selected to represent a characteristic group of practical applications” [IEV 441-17-19]

This characteristic (alphanumerical code) defines requirement linked to a type of load, such as making and breaking current for durability test, minimum number of operation, power factor of the current to make and breake.
See example below.

- control circuits: opening / closing Coils and auxiliaries allowing remote opening and/or closing if any.
- auxiliary circuits: O/C Contacts for remote signaling.

Example:
A switch with a rating of 125 A, from the AC23 category must be able to:

- make a 10 In (1250 A) current with a cos φ of 0.35
- break a 8 In (1000 A) current with a cos φ of 0.35.

Its other characteristics are:

- to withstand a 12 In - 1 s short-circuit current, which defines the Icw = 1500 A r.m.s. thermal withstand during 1 s.

Utilization category		Characteristic applications
Frequent operations	Non frequent operations	
AC-21A	AC-21B	Resistive loads including moderate overloads (cos φ = 0.95)
AC-22A	AC-22B	Mixed resistive and inductive loads including moderate overloads (cos φ = 0.65)
AC-23A	AC-23B	Motors with cage winding or orther loads which are highly inductive (cos φ = 0.45 or 0.35)

Choosing a Schneider Electric switch-disconnector

The switch must be chosen according to:
■ the characteristics of the network on which it is installed,
■ the location and the application,
■ coordination with the upstream protection devices (in particular overload and short-circuit).

Choice criteria

Network characteristics
Nominal voltage, nominal frequency and nominal current are determined in the same way as for a circuit breaker:
■ nominal voltage = nominal voltage of the network
■ frequency = network frequency
■ nominal current = rated current of a value immediately higher than the downstream load current. Note that the rated current is defined for a given ambient temperature and that a derating may have to be taken into account.

Location and application
This determines the type and characteristics or main functions that the switch must possess. There are 3 function levels (see table opposite):
■ basic functions, virtually common to all switch types:
□ isolation, control, padlocking, safety.
■ additional characteristic functions
□ direct formulation of the needs of the user and of the switch environment, i.e.:
- industrial type performance
- need for emergency stopping
- Isc level
- type of interlocking
- type of control
- utilization category
- mounting system.

■ specific functions
□ linked to operation and to installation requirements, i.e.:
- earth leakage protection
- motor mechanisms
- remote opening (“emergency stop” function)
- withdrawability.

The following table enables choice of switch according to requirements.
■ choice table
Comparison of the application table K (see page 227) and the switch technical data table M (see page 229) lets you specify which switch range should be used.

Coordination
All switches must be protected by an overcurrent protection device placed upstream.

The tables below give the coordination performance of circuit breakers and switch-disconnector of main Schneider Electric ranges: in the event of an overload or a short-circuit the circuit breaker proposed in the table will ensure protection of the Switch-disconnector according to its electrodynamic withstand and short-time and permanent withstand.

Choosing a Schneider Electric switch-disconnector

Switch-disconnector characteristics according to application

		Main distribution switchboards	Industrial distribution switchboard	Subdistribution switchboards	Final distribution enclosures	Control panel	Local isolation enclosures
Current range		400 to 6300 A	40 to 630 A	⩽ 160 A	⩽ 125 A	⩽ 40/125 A	10 to 630 A
LV switch basic functions							
making and breaking load current		■	■	■	■	■	■
Isolation [1]		■	■	■	■	■	■
Padlocking		■	■	■	■	■	■
Characteristics							
Maximum short-circuit level [2]		20 to 80 kA	■ I ⩽ 160 A: 15 to 25 kA	■ I ⩽ 63 A: 15 kA	10 kA	3 to 5 kA	■ I ⩽ 63 A: 10 kA
			■ I ⩽ 630 A: 20 to 80 kA	■ I ⩽ 160 A: 25 kA			■ I ⩽ 630 A: 25 kA
Utilization category	AC21A			■	■		
	AC22A	■	■	□	□		
	AC23		□			■	■
	AC3						■ I ⩽ 63 A
Handle	Rotary	■	■	■	□	■	■
	Direct front	■	□	■	■	■	□
	Front extended	□	□	□			■
	Side extended		□				■
Mounting	On plate	■	□	□		■	□
	Symmetrical rail (45 mm tip)	□	■	■	■	□	
Specific functions							
Earth leakage protection		□	□	□	□		
Other	Draw-out, auxiliary switches, auxiliary releases, remote control	■	■	□			□
	Emergency stop		□	□	□		□

Table K

■ compulsory.

□ possible.

[1] with positive break indication or visible isolation

[2] values are indicative. Maximum presumed short-circuit current shall be calculated for each installation

Choosing a Schneider Electric switch-disconnector

The switches available in the Schneider Electric offer

Schneider Electric offers its customers several ranges of switches.
Choice depends on:
- the application
- the additional functions to be implemented (accessories, installation, residual current protection, etc.).

The following table summarises the possibilities offered by all the Schneider Electric ranges according to the applications described above.

Applications / Products	Incoming switches for: Main distribution switchboards 400-6300 A	Industrial distribution switchboards 400-630 A	Subdistribution switchboards ⩽ 160 A	Final distribution enclosures ⩽ 125 A	Control panels ⩽ 40/125 A	Local isolation switches: Local isolation enclosures 10-630 A
Vario					■	■
Acti 9 iSW / iID (modular profile)				■		□
Acti 9 iSW-NA (modular profile)				□		■
Compact INS ⩽ 160 (modular profile)		■	■	■		■
NG125 NA (modular profile)			■	■		■
Compact INS (industrial)	■	■				■
Compact NSXm NA (Modular / Industrial)			■	□		□
Compact NSX-NA (industrial)	□	■	□			■
Masterpact NA/HA/HF (industrial)	■					

Table L
■ very common
□ fairly common.

Choosing a Schneider Electric switch-disconnector

Switch-disconnector range technical data

Table M below lists the main technical data of the switches in the Schneider Electric ranges.

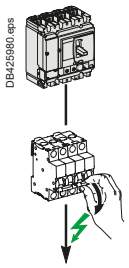
Range		Vario	Acti 9				Compact					Masterpact		
			iSW	iSW NA	iID	NG125 NA	INS	INV	NSXm NA	NSX NA	NS NA	NA	HA	HF
Clip-on on rail			■	■	■	■	■ [3]	■ [3]	■					
Main functions	Isolation	■	■ [5]	■	■	■	■	■	■	■	■	■	■	■
	Positive break indication	■	■	■	■	■	■	■	■	■	■	■	■	■
	Visible isolation							■						
Emergency stop	Manual [7]	■				■	■ [4]	■ [4]	■ [4]					
	Remote (MN coil)			■ [6]	■ [6]	■ [6]			■ [6]	■ [6]	■ [6]	■ [6]	■ [6]	■ [6]
Other functions	Residual current				■	■ [8]				■ [8]				
	Remote opening (MX)			■	■	■			■	■	■	■	■	■
	Remote control (Open Close)									■	■ [9]	■	■	■
Fixed/drawout	Fixed	■	■	■	■	■	■	■	■	■	■	■	■	■
	Drawout									■	■ [9]	■	■	■
On/Off indication contact		■	■	■	■ [1]	■ [1]	■ [2]	■ [2]	■	■	■	■	■	■
Ratings (A)	12	■												
	16				■									
	20	■												
	25	■			■									
	32	■												
	40	■	■	■	■		■							
	50								■					
	63	■	■	■	■	■	■							
	80	■		■	■	■	■							
	100		■	■	■	■	■	■	■	■				
	125	■	■			■	■							
	160	■					■	■	■	■				
	175	■												
	250						■	■		■				
	320						■	■						
	400						■	■		■				
	500						■	■						
	630						■	■		■	■		■	
	800						■	■			■	■	■	■
	1000						■	■			■	■	■	■
	1250						■	■			■	■	■	■
	1600						■	■			■	■	■	■
	2000						■	■			■		■	■
	2500						■	■			■		■	■
	3200										■		■	■
	4000												■	
	5000												■	
	6300												■	

Table M

[1] SD auxilary contact available on iID.
[2] OF contact and CAO or CAF.
[3] Only 40 to 160 A (modular profile).
[4] Specific INS/INV emergency stop switches.
[5] Only on ratings 40/63/100/125. iSW 20 and 32 are switch without isolation function according to IEC 60669-1.
[6] With MN auxiliaries.
[7] Yellow front plate/red handle.
[8] Associated Vigi bloc.
[9] Option available up to 1600 A.

Switch-disconnector - Circuit breaker coordination

Upstream: iC60, C120, NG125, Compact NSXm, NSX100, NSX160
Downstream: iSW-NA, iID



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Downstream	Switch-disconnector	iSW-NA				iID [1]				
	Rating (A)	40	63	80	100	25	40	63	100	125
	Icw (A)	800	1260	1600	2000	500	800	1260	1200	1500
	Icm (kÂ)	5	5	5	5	5	5	5	5	5

Upstream Circuit breaker	Rating or setting	Icu (kA) 415 V	Switch-disconnector conditionnal short-circuit current and related making capacity								
iC60N	**⩽ 25**	10	T	T	T	T	T	T	T	T	T
B-C-D Curves	**32**	10	T	T	T	T		T	T	T	T
	40	10	T	T	T	T		T	T	T	T
	50-63	10		T	T	T			T	T	T
iC60H	**⩽ 25**	15	T	T	T	T	T	T	T	T	T
B-C-D Curves	**32**	15	T	T	T	T		T	T	T	T
	40	15	T	T	T	T		T	T	T	T
	50-63	15		T	T	T			T	T	T
iC60L	**⩽ 25**	25	T	T	T	T	T	T	T	T	T
B-C-D-K-Z Curves	**32**	20	T	T	T	T		T	T	T	T
	40	20	T	T	T	T		T	T	T	T
	50-63	15		T	T	T		T	T	T	T
C120N	**63**	10		T	T	T			T	T	T
B-C-D Curves	**80**	10			6/9	6/9				6/9	6/9
	100	10				6/9					6/9
	125	10									6/9
C120H	**63**	20		T	T	T			T	T	T
B-C-D Curves	**80**	20			6/9	6/9				6/9	6/9
	100	20				6/9					6/9
	125	20									6/9
NG125N	**⩽ 40**	25	16/27	16/27	16/27	16/27		16/27	16/27	16/27	16/27
B-C-D Curves	**50-63**	25		16/27	16/27	16/27		16/27	16/27	16/27	16/27
	80	25			10/17	10/17				10/17	10/17
	100	25				10/17					10/17
	125	25									10/17
NG125H	**⩽ 40**	36	16/27	16/27	16/27	16/27		16/27	16/27	16/27	16/27
C Curves	**50-63**	36		16/27	16/27	16/27		16/27	16/27	16/27	16/27
	80	36			10/17	10/17				10/17	10/17
NG125L	**⩽ 40**	50	16/27	16/27	16/27	16/27		16/27	16/27	16/27	16/27
	50-63	50		16/27	16/27	16/27		16/27	16/27	16/27	16/27
B-C-D Curves	**80**	50			10/17	10/17				10/17	10/17
NSXm	**Ir ⩽ 25**	*	0.8/5	1.25/5	1.6/5	2/5	0.5/5	0.8/5	1.25/5	1.2/5	1.5/5
TMD, Micrologic	**Ir ⩽ 32**	*	0.8/5	1.25/5	1.6/5	2/5		0.8/5	1.25/5	1.2/5	1.5/5
	Ir ⩽ 40	*	0.8/5	1.25/5	1.6/5	2/5		0.8/5	1.25/5	1.2/5	1.5/5
Icu 415V:	**Ir ⩽ 50**	*		1.25/5	1.6/5	2/5			1.25/5	1.2/5	1.5/5
E/B/F/N/H	**Ir ⩽ 63**	*		1.25/5	1.6/5	2/5			1.25/5	1.2/5	1.5/5
16/25/36/50/70	**Ir ⩽ 80**	*			1.6/5	2/5				1.2/5	1.5/5
	Ir ⩽ 100	*				2/5				1.2/5	1.5/5
	Ir ⩽ 125	*									1.5/5
	Ir ⩽ 160	*									
NSX100	**Ir ⩽ 25**	*	0.8/5	1.25/5	1.6/5	2/5	0.5/5	0.8/5	1.25/5	1.2/5	1.5/5
TMD, Micrologic	**Ir ⩽ 32**	*	0.8/5	1.25/5	1.6/5	2/5		0.8/5	1.25/5	1.2/5	1.5/5
	Ir ⩽ 40	*	0.8/5	1.25/5	1.6/5	2/5		0.8/5	1.25/5	1.2/5	1.5/5
Icu 415V:	**Ir ⩽ 50**	*		1.25/5	1.6/5	2/5			1.25/5	1.2/5	1.5/5
B/F/N/H/S/L	**Ir ⩽ 63**	*		1.25/5	1.6/5	2/5			1.25/5	1.2/5	1.5/5
25/36/50/70/100/150	**Ir ⩽ 80**	*			1.6/5	2/5				1.2/5	1.5/5
	Ir ⩽ 100	*				2/5				1.2/5	1.5/5
NSX160	**Ir ⩽ 125**	*									1.5/5
TMD, Micrologic	**Ir ⩽ 160**	*									
B/F/N/H/S/L											

[1] See Guide CA908023 for additional information.

T : Protection of the switch-disconnector is ensured but combination not very relevant

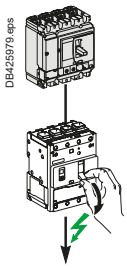
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ.

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: iC60, C120, NG125, Compact NSXm, NSX100, NSX160
Downstream: iSW, NG125NA, Compact NSXm NA



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Downstream	Switch-disconnector	iSW				NG125NA				NSXm NA		
	Rating (A)	40	63	100	125	63	80	100	125	50	100	160
	Icw (kA)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.9	1.5	1.5
	Icm (kÂ)	5	5	5	5	2	2	2	2	1.38	2.13	2.13

Upstream Circuit breaker	Rating or setting	Icu (kA) 415 V	Switch-disconnector conditionnal short-circuit current and related making capacity										
iC60N/H/L	**⩽ 25**	10/15/25	T	T	T	T	T	T	T	T	T	T	T
All Curves	**32**	10/15/20	T	T	T	T	T	T	T	T	T	T	T
	40	10/15/20	T	T	T	T	T	T	T	T	T	T	T
	50	10/15/15		T	T	T	T	T	T	T	T	T	T
	63	10/15/15		T	T	T	T	T	T	T		T	T
C120N	**63**	10		10/17	10/17	10/17		T	T	T		T	T
B-C-D Curves	**80**	10			10/17	10/17			T	T		T	T
	100	10				6/9			T	T		T	T
	125	10								T			T
C120H	**63**	20		15/25	15/25	15/25		T	T	T		T	T
B-C-D Curves	**80**	20			10/17	10/17			T	T		T	T
	100	20				10/17			T	T		T	T
	125	20								T			T
NG125N	**⩽ 40**	25	16/27	16/27	16/27	16/27	T	T	T	T	T	T	T
B-C-D Curves	**50**	25		16/27	16/27	16/27		T	T	T	T	T	T
	63	25		16/27	16/27	16/27		T	T	T		T	T
	80	25			10/17	10/17			T	T		T	T
	100	25				10/17			T	T		T	T
	125	25								T			T
NG125H	**⩽ 40**	36	16/27	16/27	16/27	16/27	T	T	T	T	T	T	T
	50	36		16/27	16/27	16/27	T	T	T	T	T	T	T
C Curve	**63**	36		16/27	16/27	16/27	T	T	T	T		T	T
	80	36			10/17	10/17		T	T	T		T	T
NG125L	**⩽ 40**	50	20/40	20/40	20/40	20/40	T	T	T	T	T	T	T
	50	50		16/27	16/27	16/27		T	T	T	T	T	T
B-C-D Curves	**63**	50		16/27	16/27	16/27			T	T		T	T
	80	50			10/17	10/17			T	T		T	T
NSXm	**Ir ⩽ 40**	*	1.5/5	1.5/5	1.5/5	1.5/5	T	T	T	T	T	T	T
TMD, Micrologic	**Ir ⩽ 50**	*		1.5/5	1.5/5	1.5/5	T	T	T	T	T	T	T
Icu 415V:	**Ir ⩽ 63**	*		1.5/5	1.5/5	1.5/5	T	T	T	T		T	T
E/B/F/N/H	**Ir ⩽ 80**	*			1.5/5	1.5/5		T	T	T		T	T
16/25/36/50/70	**Ir ⩽ 100**	*			1.5/5	1.5/5			T	T		T	T
	Ir ⩽ 125	*				1.5/5				T			T
	Ir ⩽ 160	*				1.5/5				T			T
NSX100	**Ir ⩽ 40**	*	1.5/5	1.5/5	1.5/5	1.5/5	T	T	T	T	T	T	T
TMD Micrologic	**Ir ⩽ 50**	*		1.5/5	1.5/5	1.5/5	T	T	T	T	T	T	T
Icu 415V:	**Ir ⩽ 63**	*		1.5/5	1.5/5	1.5/5	T	T	T	T		T	T
B/F	**Ir ⩽ 80**	*			1.5/5	1.5/5		T	T	T		T	T
25/36	**Ir ⩽ 100**	*			1.5/5	1.5/5			T	T			T
NSX160	**Ir ⩽ 125**	*				1.5/5				T			T
B/F	**Ir ⩽ 160**	*				1.5/5				T			T
NSX100	**Ir ⩽ 40**	*	1.5/5	1.5/5	1.5/5	1.5/5	36/75	36/75	36/75	36/75	T	T	T
TMD, Micrologic	**Ir ⩽ 50**	*		1.5/5	1.5/5	1.5/5	36/75	36/75	36/75	36/75	T	T	T
Icu 415V:	**Ir ⩽ 63**	*		1.5/5	1.5/5	1.5/5	36/75	36/75	36/75	36/75		T	T
N/H	**Ir ⩽ 80**	*			1.5/5	1.5/5		36/75	36/75	36/75		T	T
50/70	**Ir ⩽ 100**	*			1.5/5	1.5/5			36/75	36/75			T
NSX160	**Ir ⩽ 125**	*				1.5/5				36/75			T
N/H	**Ir ⩽ 160**	*				1.5/5				36/75			T
NSX100	**Ir ⩽ 40**	*	1.5/5	1.5/5	1.5/5	1.5/5	36/75	36/75	36/75	36/75	70/150	70/150	70/150
TMD, Micrologic	**Ir ⩽ 50**	*		1.5/5	1.5/5	1.5/5	36/75	36/75	36/75	36/75	70/150	70/150	70/150
Icu 415V:	**Ir ⩽ 63**	*		1.5/5	1.5/5	1.5/5	36/75	36/75	36/75	36/75		70/150	70/150
S/L	**Ir ⩽ 80**	*			1.5/5	1.5/5		36/75	36/75	36/75		70/150	70/150
100/150	**Ir ⩽ 100**	*			1.5/5	1.5/5			36/75	36/75			70/150
NSX160	**Ir ⩽ 125**	*				1.5/5				36/75			70/150
S/L	**Ir ⩽ 160**	*				1.5/5				36/75			70/150

T : Protection of the switch-disconnector is ensured but combination not very relevant

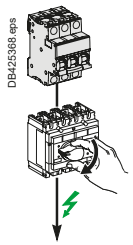
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: iC60, C120, NG125
Downstream: Compact INS40 to INS250, INV100 to INV250



Ue ⩽ 415 V AC

Downstream	Switch-disconnector	INS40	INS63	INS80	INS100	INS 250-100 INV100	INS125	INS160	INS 250-160 INV160	INS 250-200 INV200	INS250 INV250
	Ith (A) 60°	40	63	80	100	100	125	160	160	250	250
	Icw (kA)	3	3	3	5.5	8.5	5.5	5.5	8.5	8.5	8.5
	Icm (kÂ)	15	15	15	20	30	20	20	30	30	30

Upstream Circuit breaker	Rating	Icu (kA) 415 V	Switch-disconnector conditionnal short-circuit current and related making capacity									
iC60N B-C-D Curves	⩽ 32	10	T	T	T	T	T	T	T	T	T	T
	40	10	T	T	T	T	T	T	T	T	T	T
	50	10		T	T	T	T	T	T	T	T	T
	63	10		T	T	T	T	T	T	T	T	T
iC60H B-C-D Curves	⩽ 32	15	T	T	T	T	T	T	T	T	T	T
	40	15	T	T	T	T	T	T	T	T	T	T
	50	15		T	T	T	T	T	T	T	T	T
	63	15		T	T	T	T	T	T	T	T	T
iC60L B-C-D-K-Z Curves	⩽ 25	25	T	T	T	T	T	T	T	T	T	T
	32	20	T	T	T	T	T	T	T	T	T	T
	40	20		T	T	T	T	T	T	T	T	T
	50	15		T	T	T	T	T	T	T	T	T
	63	15		T	T	T	T	T	T	T	T	T
C120N	63	10		T	T	T	T	T	T	T	T	T
B-C-D Curves	80	10			T	T	T	T	T	T	T	T
1P 240V	100	10				T	T	T	T	T	T	T
2, 3, 4P 415 V	125	10						T	T	T	T	T
C120H	63	20		T	T	T	T	T	T	T	T	T
B-C-D Curves	80	20			T	T	T	T	T	T	T	T
1P 240V	100	20				T	T	T	T	T	T	T
2, 3, 4P 415 V	125	20						T	T	T	T	T
NG125N	⩽ 40	25	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	63	25		T	T	T	T	T	T	T	T	T
	80	25			T	T	T	T	T	T	T	T
	100	25				T	T	T	T	T	T	T
	125	25						T	T	T	T	T
NG125H C Curves	⩽ 40	36	T	T	T	T	T	T	T	T	T	T
	63	36		T	T	T	T	T	T	T	T	T
	80	36			T	T	T	T	T	T	T	T
	100	36				T	T	T	T	T	T	T
	125	36						T	T	T	T	T
NG125L B-C-D Curves	⩽ 40	50	T	T	T	T	T	T	T	T	T	T
	63	50		T	T	T	T	T	T	T	T	T
	80	50			T	T	T	T	T	T	T	T

T : Protection of the switch-disconnector is ensured but combination not very relevant

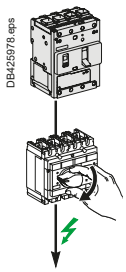
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NSXm
Downstream: Compact INS40 to 250, Compact INV100 to 250



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	INS40	INS63	INS80	INS100	INS250-100 INV100	INS125	INS160	INS250-160 INV160	INS250-200 INV200	INS250 INV250
	Ith A 60°	40	63	80	100	100	125	160	160	200	200
	Icw (kA)	3	3	3	5.5	8.5	5.5	5.5	8.5	8.5	8.5
	Icm (kÂ)	15	15	15	20	30	20	20	30	30	30

Upstream Circuit breaker:	Icu (kA) 415 V	440 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity									
NSXm E	16	10	Ir ⩽ 40	T	T	T	T	T	T	T	T	T	T
TMD, Micrologic			Ir ⩽ 50		T	T	T	T	T	T	T	T	T
			Ir ⩽ 63		T	T	T	T	T	T	T	T	T
			Ir ⩽ 80			T	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
NSXm B	25	20	Ir ⩽ 40	T	T	T	T	T	T	T	T	T	T
TMD, Micrologic			Ir ⩽ 50		T	T	T	T	T	T	T	T	T
			Ir ⩽ 63		T	T	T	T	T	T	T	T	T
			Ir ⩽ 80			T	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
NSXm F	36	35	Ir ⩽ 40	T	T	T	T	T	T	T	T	T	T
TMD, Micrologic			Ir ⩽ 50		T	T	T	T	T	T	T	T	T
			Ir ⩽ 63		T	T	T	T	T	T	T	T	T
			Ir ⩽ 80			T	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
NSXm N	50	50	Ir ⩽ 40	36/75	36/75	36/75	T	T	T	T	T	T	T
TMD, Micrologic			Ir ⩽ 50		36/75	36/75	T	T	T	T	T	T	T
			Ir ⩽ 63		36/75	36/75	T	T	T	T	T	T	T
			Ir ⩽ 80			36/75	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
NSXm H	70	65	Ir ⩽ 40	36/75	36/75	36/75	T	T	T	T	T	T	T
TMD, Micrologic			Ir ⩽ 50		36/75	36/75	T	T	T	T	T	T	T
			Ir ⩽ 63		36/75	36/75	T	T	T	T	T	T	T
			Ir ⩽ 80			36/75	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T

T : Protection of the switch-disconnector is ensured but combination not very relevant

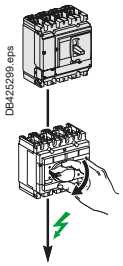
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NSX100 to 250
Downstream: Compact INS40 to INS250, INV100 to INV250



Ue ⩽ 440 V AC

Downstream	Switch-disconector	INS40	INS63	INS80	INS100	INS250-100 INV100	INS125	INS160	INS250-160 INV160	INS250-200 INV200	INS250 INV250
	Ith A 60°	40	63	80	100	100	125	160	160	200	250
	Icw (kA)	3	3	3	5,5	8,5	5,5	5,5	8,5	8,5	8,5
	Icm (kÂ)	15	15	15	20	30	20	20	30	30	30

Upstream circuit breaker	Icu (kA) 415V	440V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity									
NSX100B	25	20	Ir ⩽ 40	T	T	T	T	T	T	T	T	T	T
NSX160B			Ir ⩽ 63		T	T	T	T	T	T	T	T	T
TMD / TMG /			Ir ⩽ 80			T	T	T	T	T	T	T	T
Micrologic			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
NSX250B	25	20	Ir ⩽ 40	T	T	T	T	T	T	T	T	T	T
TMD / TMG /			Ir ⩽ 63		T	T	T	T	T	T	T	T	T
Micrologic			Ir ⩽ 80			T	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
			Ir ⩽ 200									T	T
			Ir ⩽ 250										T
NSX100F	36	35	Ir ⩽ 40	36/75	36/75	36/75	T	T	T	T	T	T	T
NSX160F			Ir ⩽ 63		36/75	36/75	T	T	T	T	T	T	T
TMD / TMG /			Ir ⩽ 80			36/75	T	T	T	T	T	T	T
Micrologic			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
NSX250F	36	35	Ir ⩽ 40	25/52	25/52	25/52	T	T	T	T	T	T	T
TMD / TMG /			Ir ⩽ 63		25/52	25/52	T	T	T	T	T	T	T
Micrologic			Ir ⩽ 80			25/52	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
			Ir ⩽ 200									T	T
			Ir ⩽ 250										T
NSX100N/H	50/70	50/65	Ir ⩽ 40	25/52	25/52	25/52	T	T	T	T	T	T	T
NSX160N/H			Ir ⩽ 63		25/52	25/52	T	T	T	T	T	T	T
TMD / TMG /			Ir ⩽ 80			25/52	T	T	T	T	T	T	T
Micrologic			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
NSX250N/H	50/70	50/65	Ir ⩽ 40	25/52	25/52	25/52	T	T	T	T	T	T	T
TMD / TMG /			Ir ⩽ 63		25/52	25/52	T	T	T	T	T	T	T
Micrologic			Ir ⩽ 80			25/52	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
			Ir ⩽ 200									T	T
			Ir ⩽ 250										T
NSX100S/L/R	100/	90/	Ir ⩽ 40	36/75	36/75	36/75	65/143	T	65/143	65/143	T	T	T
TMD / TMG /	150/	130/	Ir ⩽ 63		36/75	36/75	65/143	T	65/143	65/143	T	T	T
Micrologic	200	200	Ir ⩽ 80			36/75	65/143	T	65/143	65/143	T	T	T
			Ir ⩽ 100				65/143	T	65/143	65/143	T	T	T
NSX160S/L	100/	90/	Ir ⩽ 40	36/75	36/75	36/75	65/143	T	65/143	65/143	T	T	T
TMD / TMG /	150	130	Ir ⩽ 63		36/75	36/75	65/143	T	65/143	65/143	T	T	T
Micrologic			Ir ⩽ 80			36/75	65/143	T	65/143	65/143	T	T	T
			Ir ⩽ 100				65/143	T	65/143	65/143	T	T	T
			Ir ⩽ 125						65/143	65/143	T	T	T
			Ir ⩽ 160							65/143	T	T	T
NSX250S/L/R	100/	90/	Ir ⩽ 40	25/52	25/52	25/52	65/143	T	65/143	65/143	T	T	T
TMD / TMG /	150/	130/	Ir ⩽ 63		25/52	25/52	65/143	T	65/143	65/143	T	T	T
Micrologic	200	200	Ir ⩽ 80			25/52	65/143	T	65/143	65/143	T	T	T
			Ir ⩽ 100				65/143	T	65/143	65/143	T	T	T
			Ir ⩽ 125						65/143	65/143	T	T	T
			Ir ⩽ 160							65/143	T	T	T
			Ir ⩽ 200									T	T
			Ir ⩽ 250										T

T : Protection of the switch-disconnector is ensured but combination not very relevant

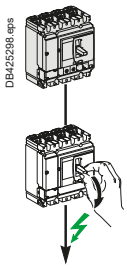
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NSX100 to 630
Downstream: Compact NSX100 to 630 NA



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	NSX100NA	NSX160NA	NSX250NA	NSX400NA	NSX630NA
	Ith A 60°	100	160	250	400	630
	Icw (kA)	1.8	2.5	3.5	5	6
	Icm (kÂ)	2.6	3.6	4.9	7.1	8.5

Upstream Circuit breaker	Icu (kA) 415 V	440 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity				
NSX100B	25	20	Ir ⩽ 100	T	T	T	T	T
NSX160B			Ir ⩽ 160		T	T	T	T
NSX250B			Ir ⩽ 200			T	T	T
TMD / TMG / Micrologic			Ir ⩽ 250			T	T	T
NSX100F	36	35	Ir ⩽ 100	T	T	T	T	T
NSX160F			Ir ⩽ 160		T	T	T	T
NSX250F			Ir ⩽ 200			T	T	T
TMD / TMG / Micrologic			Ir ⩽ 250			T	T	T
NSX400F	36	30	Ir = 100 [1]	T	T	T	T	T
NSX630F			Ir ⩽ 160		T	T	T	T
Micrologic			Ir ⩽ 250			T	T	T
			Ir ⩽ 400				T	T
			Ir ⩽ 630					T
NSX100N	50	50	Ir ⩽ 100	T	T	T	T	T
NSX160N			Ir ⩽ 160		T	T	T	T
NSX250N			Ir ⩽ 200			T	T	T
TMD / TMG / Micrologic			Ir ⩽ 250			T	T	T
NSX400N	50	42	Ir = 100 [1]	T	T	T	T	T
NSX630N			Ir ⩽ 160		T	T	T	T
Micrologic			Ir ⩽ 250			T	T	T
			Ir ⩽ 400				T	T
			Ir ⩽ 630					T
NSX100H	70	65	Ir ⩽ 100	T	T	T	T	T
NSX160H			Ir ⩽ 160		T	T	T	T
NSX250H			Ir ⩽ 200			T	T	T
TMD / TMG / Micrologic			Ir ⩽ 250			T	T	T
NSX400H	70	65	Ir = 100 [1]	T	T	T	T	T
NSX630H			Ir ⩽ 160		T	T	T	T
Micrologic			Ir ⩽ 250			T	T	T
			Ir ⩽ 400				T	T
			Ir ⩽ 630					T
NSX100S	100	90	Ir ⩽ 100	T	T	T	T	T
NSX160S			Ir ⩽ 160		T	T	T	T
NSX250S			Ir ⩽ 200			T	T	T
TMD / TMG / Micrologic			Ir ⩽ 250			T	T	T
NSX400S	100	90	Ir = 100 [1]	T	T	T	T	T
NSX630S			Ir ⩽ 160		T	T	T	T
Micrologic			Ir ⩽ 250			T	T	T
			Ir ⩽ 400				T	T
			Ir ⩽ 630					T
NSX100L	150	130	Ir ⩽ 100	T	T	T	T	T
NSX160L			Ir ⩽ 160		T	T	T	T
NSX250L			Ir ⩽ 200			T	T	T
TMD / TMG / Micrologic			Ir ⩽ 250			T	T	T
NSX400L	150	130	Ir = 100 [1]	T	T	T	T	T
NSX630L			Ir ⩽ 160		T	T	T	T
Micrologic			Ir ⩽ 250			T	T	T
			Ir ⩽ 400				T	T
			Ir ⩽ 630					T
NSX100R	200	200	Ir ⩽ 100	T	T	T	T	T
NSX250R			Ir ⩽ 160		T	T	T	T
TMD / TMG / Micrologic			Ir ⩽ 200			T	T	T
			Ir ⩽ 250			T	T	T
NSX400R	200	200	Ir = 100 [1]	T	T	T	T	T
NSX630R			Ir ⩽ 160		T	T	T	T
Micrologic			Ir ⩽ 250			T	T	T
			Ir ⩽ 400				T	T
			Ir ⩽ 630					T

[1] NSX400 with Micrologic 250 A can be set down to 100 A.

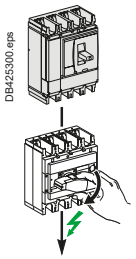
T : Protection of the switch-disconnector is ensured but combination not very relevant

T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NSX400 to 630
Downstream: Compact INS/INV100 to 630



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	INS100	INS250-100 INV100	INS125	INS160	INS250-160 INV160	INS250-200 INV200	INS250 INV250	INS320 INV320	INS400 INV400	INS500 INV500	INS630 INV630	INS630b INV630b
	Ith A 60°	100	100	125	160	160	200	250	320	400	500	630	630
	Icw (kA)	5.5	8.5	5.5	5.5	8.5	8.5	8.5	20	20	20	20	35
	Icm (kÂ)	20	30	20	20	30	30	30	50	50	50	50	75

Upstream Circuit breaker	Icu (kA) 415 V	Icu (kA) 440 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity											
NSX400F	36	30	Ir = 100 [1]	16/32	T	16/32	16/32	T	T	T	T	T	T	T	T
NSX630F			Ir ⩽ 160				16/32	T	T	T	T	T	T	T	T
Micrologic			Ir ⩽ 200						T	T	T	T	T	T	T
			Ir ⩽ 250							T	T	T	T	T	T
			Ir ⩽ 320								T	T	T	T	T
			Ir ⩽ 400									T	T	T	T
			Ir ⩽ 500										T	T	T
			Ir ⩽ 630											T	T
NSX400N	50	42	Ir = 100 [1]	16/32	36/75	16/32	16/32	36/75	36/75	36/75	T	T	T	T	T
NSX630N			Ir ⩽ 160				16/32	36/75	36/75	36/75	T	T	T	T	T
Micrologic			Ir ⩽ 200						36/75	36/75	T	T	T	T	T
			Ir ⩽ 250							36/75	T	T	T	T	T
			Ir ⩽ 320								T	T	T	T	T
			Ir ⩽ 400									T	T	T	T
			Ir ⩽ 500										T	T	T
			Ir ⩽ 630											T	T
NSX400H	70	65	Ir = 100 [1]	16/32	36/75	16/32	16/32	36/75	36/75	36/75	T	T	T	T	T
NSX630H			Ir ⩽ 160				16/32	36/75	36/75	36/75	T	T	T	T	T
Micrologic			Ir ⩽ 200						36/75	36/75	T	T	T	T	T
			Ir ⩽ 250							36/75	T	T	T	T	T
			Ir ⩽ 320								T	T	T	T	T
			Ir ⩽ 400									T	T	T	T
			Ir ⩽ 500										T	T	T
			Ir ⩽ 630											T	T
NSX400S	100	90	Ir = 100 [1]	16/32	36/75	16/32	16/32	36/75	36/75	36/75	T	T	T	T	T
NSX630S			Ir ⩽ 160				16/32	36/75	36/75	36/75	T	T	T	T	T
Micrologic			Ir ⩽ 200						36/75	36/75	T	T	T	T	T
			Ir ⩽ 250							36/75	T	T	T	T	T
			Ir ⩽ 320								T	T	T	T	T
			Ir ⩽ 400									T	T	T	T
			Ir ⩽ 500										T	T	T
			Ir ⩽ 630											T	T
NSX400L	150	130	Ir = 100 [1]	16/32	36/75	16/32	16/32	36/75	36/75	36/75	T	T	T	T	T
NSX630L			Ir ⩽ 160				16/32	36/75	36/75	36/75	T	T	T	T	T
Micrologic			Ir ⩽ 200						36/75	36/75	T	T	T	T	T
			Ir ⩽ 250							36/75	T	T	T	T	T
			Ir ⩽ 320								T	T	T	T	T
			Ir ⩽ 400									T	T	T	T
			Ir ⩽ 500										T	T	T
			Ir ⩽ 630											T	T
NSX400R	200	200	Ir = 100 [1]	16/32	36/75	16/32	16/32	36/75	36/75	36/75	150/330	150/330	150/330	150/330	T
NSX630R			Ir ⩽ 160				16/32	36/75	36/75	36/75	150/330	150/330	150/330	150/330	T
Micrologic			Ir ⩽ 200						36/75	36/75	150/330	150/330	150/330	150/330	T
			Ir ⩽ 250							36/75	150/330	150/330	150/330	150/330	T
			Ir ⩽ 320								150/330	150/330	150/330	150/330	T
			Ir ⩽ 400									150/330	150/330	150/330	T
			Ir ⩽ 500										150/330	150/330	T
			Ir ⩽ 630											150/330	T

[1] NSX400 with Micrologic 250 A can be set down to 100 A.

T : Protection of the switch-disconnector is ensured but combination not very relevant

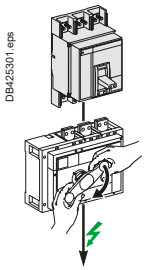
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NS630b to 3200, Masterpact MTZ1
Downstream: Compact INS/INV500 to 2500



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Downstream	Switch-disconnector	INS500 INV500	INS630 INV630	INS630b INV630b	INS800 INV800	INS1000 INV1000	INS1250 INV1250	INS1600 INV1600	INS2000 INV2000	INS2500 INV2500
	Ith A 60°	500	630	630	800	1000	1250	1600	2000	2500
	Icw (kA)	20	20	35	35	35	35	35	50	50
	Icm (kÂ)	50	50	75	75	75	75	75	105	105

Upstream Circuit breaker	Icu (kA)		Setting	Switch-disconnector conditionnal short-circuit current and related making capacity								
	415 V	440 V	Ir									
NS630bN	50	50	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
NS800N			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
NS1000N			Ir ⩽ 800				35/75	35/75	35/75	35/75	T	T
NS1250N			Ir ⩽ 1000					35/75	35/75	35/75	T	T
NS1600N			Ir ⩽ 1250						35/75	35/75	T	T
			Ir ⩽ 1600							35/75	T	T
NS630bH	70	65	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
NS800H			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
NS1000H			Ir ⩽ 800				35/75	35/75	35/75	35/75	50/105	50/105
NS1250H			Ir ⩽ 1000					35/75	35/75	35/75	50/105	50/105
NS1600H			Ir ⩽ 1250						35/75	35/75	50/105	50/105
			Ir ⩽ 1600							35/75	50/105	50/105
NS630bL	150	130	Ir ⩽ 500	50/105	50/105	T	T	T	T	T	T	T
NS800L			Ir ⩽ 630		50/105	T	T	T	T	T	T	T
NS1000L			Ir ⩽ 800				T	T	T	T	T	T
			Ir ⩽ 1000					T	T	T	T	T
NS630bLB	200	200	Ir ⩽ 500	90/200	90/200	T	T	T	T	T	T	T
NS800LB			Ir ⩽ 630		90/200	T	T	T	T	T	T	T
			Ir ⩽ 800				T	T	T	T	T	T
NS1600bN	70	65	Ir ⩽ 1250						35/75	35/75	50/105	50/105
NS2000N			Ir ⩽ 1600							35/75	50/105	50/105
NS2500N			Ir ⩽ 2000								50/105	50/105
NS3200N			Ir ⩽ 2500									50/105
NS1600bH	85	85	Ir ⩽ 1250						35/75	35/75	50/105	50/105
NS2000H			Ir ⩽ 1600							35/75	50/105	50/105
NS2500H			Ir ⩽ 2000								50/105	50/105
NS3200H			Ir ⩽ 2500									50/105
MTZ1 06H1	42	42	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
MTZ1 08H1			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
MTZ1 10H1			Ir ⩽ 800				35/75	35/75	35/75	35/75	T	T
MTZ1 12H1			Ir ⩽ 1000					35/75	35/75	35/75	T	T
MTZ1 16H1			Ir ⩽ 1250						35/75	35/75	T	T
			Ir ⩽ 1600							35/75	T	T
MTZ1 06H2	50	50	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
MTZ1 08H2			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
MTZ1 10H2			Ir ⩽ 800				35/75	35/75	35/75	35/75	T	T
MTZ1 12H2			Ir ⩽ 1000					35/75	35/75	35/75	T	T
MTZ1 16H2			Ir ⩽ 1250						35/75	35/75	T	T
			Ir ⩽ 1600							35/75	T	T
MTZ1 06H3	66	66	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
MTZ1 08H3			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
MTZ1 10H3			Ir ⩽ 800				35/75	35/75	35/75	35/75	50/105	50/105
MTZ1 12H3			Ir ⩽ 1000					35/75	35/75	35/75	50/105	50/105
MTZ1 16H3			Ir ⩽ 1250						35/75	35/75	50/105	50/105
			Ir ⩽ 1600							35/75	50/105	50/105
MTZ1 06L1	150	130	Ir ⩽ 500	50/105	50/105	100/220	100/220	100/220	100/220	100/220	100/220	100/220
MTZ1 08L1			Ir ⩽ 630		50/105	100/220	100/220	100/220	100/220	100/220	100/220	100/220
MTZ1 10L1			Ir ⩽ 800				100/220	100/220	100/220	100/220	100/220	100/220
			Ir ⩽ 1000					100/220	100/220	100/220	100/220	100/220

T : Protection of the switch-disconnector is ensured but combination not very relevant

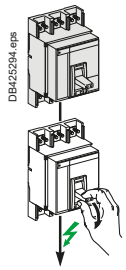
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NS630b to 3200, Masterpact MTZ1
Downstream: Compact NS630b to 3200 NA



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Downstream	Switch-disconnector	NS630b NA	NS800 NA	NS1000 NA	NS1250 NA	NS1600 NA	NS1600b NA	NS2000 NA	NS2500 NA	NS3200 NA
	Ith A 60°	630	800	1000	1250	1600	1600	2000	2500	3200
	Icw (kA)	25 (0.5s)	25 (0.5s)	25 (0.5s)	25 (0.5s)	25 (0.5s)	32 (3s)	32 (3s)	32 (3s)	32 (3s)
	Icm (kÂ)	52	52	52	52	52	135	135	135	135

Upstream Circuit breaker	Icu (kA)		Setting	Switch-disconnector conditionnal short-circuit current and related making capacity								
	415 V	440 V	Ir									
NS630bN	50	50	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
NS800N			Ir ⩽ 800		T	T	T	T	T	T	T	T
NS1000N			Ir ⩽ 1000			T	T	T	T	T	T	T
NS1250N			Ir ⩽ 1250				T	T	T	T	T	T
NS1600N			Ir ⩽ 1600					T	T	T	T	T
NS630bH	70	65	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
NS800H			Ir ⩽ 800		T	T	T	T	T	T	T	T
NS1000H			Ir ⩽ 1000			T	T	T	T	T	T	T
NS1250H			Ir ⩽ 1250				T	T	T	T	T	T
NS1600H			Ir ⩽ 1600					T	T	T	T	T
NS630bL	150	130	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
NS800L			Ir ⩽ 800		T	T	T	T	T	T	T	T
NS1000L			Ir ⩽ 1000			T	T	T	T	T	T	T
NS630bLB	200	200	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
NS800LB			Ir ⩽ 800		T	T	T	T	T	T	T	T
NS1600bN	70	65	Ir ⩽ 1600						T	T	T	T
NS2000N			Ir ⩽ 2000							T	T	T
NS2500N			Ir ⩽ 2500								T	T
NS3200N			Ir ⩽ 3200									T
NS1600bH	85	85	Ir ⩽ 1600						T	T	T	T
NS2000H			Ir ⩽ 2000							T	T	T
NS2500H			Ir ⩽ 2500								T	T
NS3200H			Ir ⩽ 3200									T
MTZ1 06H1	42	42	Ir ⩽ 630	25/52	25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 08H1			Ir ⩽ 800		25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 10H1			Ir ⩽ 1000			25/52	25/52	25/52	T	T	T	T
MTZ1 12H1			Ir ⩽ 1250				25/52	25/52	T	T	T	T
MTZ1 16H1			Ir ⩽ 1600					25/52	T	T	T	T
MTZ1 06H2	50	50	Ir ⩽ 630	25/52	25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 08H2			Ir ⩽ 800		25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 10H2			Ir ⩽ 1000			25/52	25/52	25/52	T	T	T	T
MTZ1 12H2			Ir ⩽ 1250				25/52	25/52	T	T	T	T
MTZ1 16H2			Ir ⩽ 1600					25/52	T	T	T	T
MTZ1 06H3	66	66	Ir ⩽ 630	25/52	25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 08H3			Ir ⩽ 800		25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 10H3			Ir ⩽ 1000			25/52	25/52	25/52	T	T	T	T
MTZ1 12H3			Ir ⩽ 1250				25/52	25/52	T	T	T	T
MTZ1 16H3			Ir ⩽ 1600					25/52	T	T	T	T
MTZ1 06L1	150	130	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
MTZ1 08L1			Ir ⩽ 800		T	T	T	T	T	T	T	T
MTZ1 10L1			Ir ⩽ 1000			T	T	T	T	T	T	T

T : Protection of the switch-disconnector is ensured but combination not very relevant

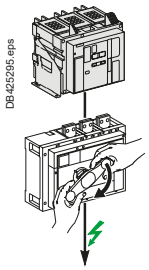
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Masterpact MTZ2
Downstream: Compact INS/INV500 to 2500



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	INS500 INV500	INS630 INV630	INS630b INV630b	INS800 INV800	INS1000 INV1000	INS1250 INV1250	INS1600 INV1600	INS2000 INV2000	INS2500 INV2500
	Ith A 60°	500	630	630	800	1000	1250	1600	2000	2500
	Icw (kA)	20	20	35	35	35	35	35	50	50
	Icm (kÂ)	50	50	75	75	75	75	75	105	105

Upstream Circuit breaker	Icu (kA) 415 V	Icu (kA) 440 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
MTZ2 08N1	42	42	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
MTZ2 10N1			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
MTZ2 12N1			Ir ⩽ 800				35/75	35/75	35/75	35/75	T	T
MTZ2 16N1			Ir ⩽ 1000					35/75	35/75	35/75	T	T
MTZ2 20N1			Ir ⩽ 1250						35/75	35/75	T	T
			Ir ⩽ 1600							35/75	T	T
			Ir ⩽ 2000								T	T
MTZ2 08H1	66	66	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
MTZ2 10H1			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
MTZ2 12H1			Ir ⩽ 800				35/75	35/75	35/75	35/75	50/105	50/105
MTZ2 16H1			Ir ⩽ 1000					35/75	35/75	35/75	50/105	50/105
MTZ2 20H1			Ir ⩽ 1250						35/75	35/75	50/105	50/105
MTZ2 25H1			Ir ⩽ 1600						35/75	35/75	50/105	50/105
			Ir ⩽ 2000								50/105	50/105
			Ir ⩽ 2500									50/105
MTZ2 08H2	100	100	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
MTZ2 10H2			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
MTZ2 12H2			Ir ⩽ 800				35/75	35/75	35/75	35/75	50/105	50/105
MTZ2 16H2			Ir ⩽ 1000					35/75	35/75	35/75	50/105	50/105
MTZ2 20H2			Ir ⩽ 1250						35/75	35/75	50/105	50/105
MTZ2 25H2			Ir ⩽ 1600						35/75	35/75	50/105	50/105
MTZ2 20H3	150	150	Ir ⩽ 2000								50/105	50/105
MTZ2 25H3			Ir ⩽ 2500									50/105

T : Protection of the switch-disconnector is ensured but combination not very relevant

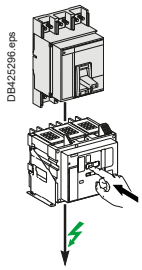
T : Switch-disconnector is Totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NS630b -1600, Masterpact MTZ1, MTZ2
Downstream: Masterpact MTZ1 HA, Masterpact MTZ2 NA



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	MTZ1 06HA	MTZ1 08HA	MTZ1 10HA	MTZ1 12HA	MTZ1 16HA	MTZ2 08NA	MTZ2 10NA	MTZ2 12NA	MTZ2 16NA
	Ith A 60°	630	800	1000	1250	1600	800	1000	1250	1600
	Icw (kA)	36	36	36	36	36	42	42	42	42
	Icm (kÂ)	75	75	75	75	75	88	88	88	88

Upstream Circuit breaker	Icu (kA) 415 V	Icu (kA) 440 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
NS630bN	50	50	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
NS800N			Ir ⩽ 800		T	T	T	T	T	T	T	T
NS1000N			Ir ⩽ 1000			T	T	T		T	T	T
NS1250N			Ir ⩽ 1250				T	T			T	T
NS1600N			Ir ⩽ 1600					T				T
NS630bH	70	65	Ir ⩽ 630	50/105	50/105	50/105	50/105	50/105	50/105	50/105	50/105	50/105
NS800H			Ir ⩽ 800		50/105	50/105	50/105	50/105	50/105	50/105	50/105	50/105
NS1000H			Ir ⩽ 1000			50/105	50/105	50/105		50/105	50/105	50/105
NS1250H			Ir ⩽ 1250				50/105	50/105			50/105	50/105
NS1600H			Ir ⩽ 1600					50/105				50/105
NS630bL	150	130	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
NS800L			Ir ⩽ 800		T	T	T	T	T	T	T	T
NS1000L			Ir ⩽ 1000			T	T	T		T	T	T
NS630bLB	200	200	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
NS800LB			Ir ⩽ 800		T	T	T	T	T	T	T	T
MTZ1 06H1	42	42	Ir ⩽ 630	36/75	36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ1 08H1			Ir ⩽ 800		36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ1 10H1			Ir ⩽ 1000			36/75	36/75	36/75		42/88	42/88	42/88
MTZ1 12H1			Ir ⩽ 1250				36/75	36/75			42/88	42/88
MTZ1 16H1			Ir ⩽ 1600					36/75				42/88
MTZ1 06H2	50	50	Ir ⩽ 630	36/75	36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ1 08H2			Ir ⩽ 800		36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ1 10H2			Ir ⩽ 1000			36/75	36/75	36/75		42/88	42/88	42/88
MTZ1 12H2			Ir ⩽ 1250				36/75	36/75			42/88	42/88
MTZ1 16H2			Ir ⩽ 1600					36/75				42/88
MTZ1 06H3	66	66	Ir ⩽ 630	36/75	36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ1 08H3			Ir ⩽ 800		36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ1 10H3			Ir ⩽ 1000			36/75	36/75	36/75		42/88	42/88	42/88
MTZ1 12H3			Ir ⩽ 1250				36/75	36/75			42/88	42/88
MTZ1 16H3			Ir ⩽ 1600					36/75				42/88
MTZ1 06L1	150	130	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
MTZ1 08L1			Ir ⩽ 800		T	T	T	T	T	T	T	T
MTZ1 10L1			Ir ⩽ 1000			T	T	T		T	T	T
MTZ2 08N1	42	42	Ir ⩽ 800		36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ2 10N1			Ir ⩽ 1000			36/75	36/75	36/75		42/88	42/88	42/88
MTZ2 12N1			Ir ⩽ 1250				36/75	36/75			42/88	42/88
MTZ2 16N1			Ir ⩽ 1600					36/75				42/88
MTZ2 20N1												
MTZ2 08H1	66	66	Ir ⩽ 800		36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ2 10H1			Ir ⩽ 1000			36/75	36/75	36/75		42/88	42/88	42/88
MTZ2 12H1			Ir ⩽ 1250				36/75	36/75			42/88	42/88
MTZ2 16H1			Ir ⩽ 1600					36/75				42/88

T : Protection of the switch-disconnector is ensured but combination not very relevant

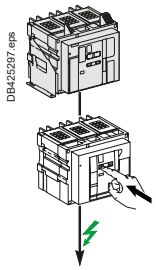
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Masterpact MTZ2, MTZ3
Downstream: Masterpact MTZ2 HA, MTZ3 HA



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	MTZ2 08 HA	MTZ2 10 HA	MTZ2 12 HA	MTZ2 16 HA	MTZ2 20 HA	MTZ2 25 HA	MTZ2 32 HA	MTZ2 40 HA	MTZ3 40 HA	MTZ3 50 HA	MTZ3 63 HA
	Ith A 60°	800	1000	1250	1600	2000	2500	3200	4000	4000	5000	6300
	Icw (kA)	66	66	66	66	66	66	66	66	85	85	85
	Icm (kÂ)	145	145	145	145	145	145	145	145	187	187	187

Upstream Circuit breaker	Icu (kA) 415 V	Icu (kA) 440 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity										
MTZ2 08N1	42	42	Ir ⩽ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10N1			Ir ⩽ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12N1			Ir ⩽ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16N1			Ir ⩽ 1600				T	T	T	T	T	T	T	T
MTZ2 20N1			Ir ⩽ 2000					T	T	T	T	T	T	T
MTZ2 08H1	66	66	Ir ⩽ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10H1			Ir ⩽ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12H1			Ir ⩽ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16H1			Ir ⩽ 1600				T	T	T	T	T	T	T	T
MTZ2 20H1			Ir ⩽ 2000					T	T	T	T	T	T	T
MTZ2 25H1			Ir ⩽ 2500						T	T	T	T	T	T
MTZ2 32H1			Ir ⩽ 3200							T	T	T	T	T
MTZ2 40H1			Ir ⩽ 4000								T	T	T	T
MTZ3 40H1	100	100	Ir ⩽ 4000								66/145	85/187	85/187	85/187
MTZ3 50H1			Ir ⩽ 5000										85/187	85/187
MTZ3 63H1			Ir ⩽ 6300											85/187
MTZ2 08H2	100	100	Ir ⩽ 800	66/145	66/145	66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 10H2			Ir ⩽ 1000		66/145	66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 12H2			Ir ⩽ 1250			66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 16H2			Ir ⩽ 1600				66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 20H2			Ir ⩽ 2000					66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 25H2			Ir ⩽ 2500						66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 32H2			Ir ⩽ 3200							66/145	66/145	85/187	85/187	85/187
MTZ2 40H2			Ir ⩽ 4000								66/145	85/187	85/187	85/187
MTZ2 08L1	150	150	Ir ⩽ 800	66/145	66/145	66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 10L1			Ir ⩽ 1000		66/145	66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 12L1			Ir ⩽ 1250			66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 16L1			Ir ⩽ 1600				66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 20L1			Ir ⩽ 2000					66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 20H3			Ir ⩽ 2000					66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 25H3			Ir ⩽ 2500						66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 32H3			Ir ⩽ 3200							66/145	66/145	85/187	85/187	85/187
MTZ2 40H3			Ir ⩽ 4000								66/145	85/187	85/187	85/187
MTZ3 40H2	150	150	Ir ⩽ 4000								66/145	85/187	85/187	85/187
MTZ3 50H2			Ir ⩽ 5000										85/187	85/187
MTZ3 63H2			Ir ⩽ 6300											85/187

T : Protection of the switch-disconnector is ensured but combination not very relevant

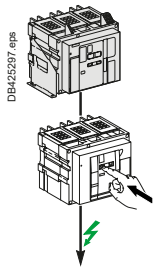
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Masterpact MTZ2, Masterpact MTZ3
Downstream: Masterpact NW HF, NW HH



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	NW08 HF	NW10 HF	NW12 HF	NW16 HF	NW20 HF	NW25 HF	NW32 HF	NW40 HF	NW40b HH	NW50 HH	NW63 HH
	Ith A 60°	800	1000	1250	1600	2000	2500	3200	4000	4000	5000	6300
	Icw (kA)	85	85	85	85	85	85	85	85	100	100	100
	Icm (kÂ)	187	187	187	187	187	187	187	187	220	220	220

Upstream Circuit breaker	Icu (kA) 415 V	Icu (kA) 440 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity										
MTZ2 08N1	42	42	Ir ⩽ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10N1			Ir ⩽ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12N1			Ir ⩽ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16N1			Ir ⩽ 1600				T	T	T	T	T	T	T	T
MTZ2 20N1			Ir ⩽ 2000					T	T	T	T	T	T	T
MTZ2 08H1	66	66	Ir ⩽ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10H1			Ir ⩽ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12H1			Ir ⩽ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16H1			Ir ⩽ 1600				T	T	T	T	T	T	T	T
MTZ2 20H1			Ir ⩽ 2000					T	T	T	T	T	T	T
MTZ2 25H1			Ir ⩽ 2500						T	T	T	T	T	T
MTZ2 32H1			Ir ⩽ 3200							T	T	T	T	T
MTZ2 40H1			Ir ⩽ 4000								T	T	T	T
MTZ3 40H1	100	100	Ir ⩽ 2500						85/187	85/187	85/187	T	T	T
MTZ3 50H1			Ir ⩽ 3200							85/187	85/187	100/220	T	T
MTZ3 63H1			Ir ⩽ 4000								85/187	100/220	100/220	100/220
			Ir ⩽ 5000										100/220	100/220
			Ir ⩽ 6300											100/220
MTZ2 08H2	100	100	Ir ⩽ 800	85/187	85/187	85/187	85/187	85/187	85/187	85/187	85/187	T	T	T
MTZ2 10H2			Ir ⩽ 1000		85/187	85/187	85/187	85/187	85/187	85/187	85/187	T	T	T
MTZ2 12H2			Ir ⩽ 1250			85/187	85/187	85/187	85/187	85/187	85/187	T	T	T
MTZ2 16H2			Ir ⩽ 1600				85/187	85/187	85/187	85/187	85/187	T	T	T
MTZ2 20H2			Ir ⩽ 2000					85/187	85/187	85/187	85/187	T	T	T
MTZ2 25H2			Ir ⩽ 2500						85/187	85/187	85/187	T	T	T
MTZ2 32H2			Ir ⩽ 3200							85/187	85/187	T	T	T
MTZ2 40H2			Ir ⩽ 4000								85/187	T	T	T
MTZ2 08L1	150	150	Ir ⩽ 800	85/187	85/187	85/187	85/187	85/187	85/187	85/187	85/187	100/220	100/220	100/220
MTZ2 10L1			Ir ⩽ 1000		85/187	85/187	85/187	85/187	85/187	85/187	85/187	100/220	100/220	100/220
MTZ2 12L1			Ir ⩽ 1250			85/187	85/187	85/187	85/187	85/187	85/187	100/220	100/220	100/220
MTZ2 16L1			Ir ⩽ 1600				85/187	85/187	85/187	85/187	85/187	100/220	100/220	100/220
MTZ2 20L1			Ir ⩽ 2000					85/187	85/187	85/187	85/187	100/220	100/220	100/220
MTZ2 20H3	150	150	Ir ⩽ 2000					85/187	85/187	85/187	85/187	100/220	100/220	100/220
MTZ2 25H3			Ir ⩽ 2500						85/187	85/187	85/187	100/220	100/220	100/220
MTZ2 32H3			Ir ⩽ 3200							85/187	85/187	100/220	100/220	100/220
MTZ2 40H3			Ir ⩽ 4000								85/187	100/220	100/220	100/220
MTZ3 40H2	150	150	Ir ⩽ 2500						85/187	85/187	85/187	100/220	100/220	100/220
MTZ3 50H2			Ir ⩽ 3200							85/187	85/187	100/220	100/220	100/220
MTZ3 63H2			Ir ⩽ 4000								85/187	100/220	100/220	100/220
			Ir ⩽ 5000										100/220	100/220
			Ir ⩽ 6300											100/220

T : Protection of the switch-disconnector is ensured but combination not very relevant

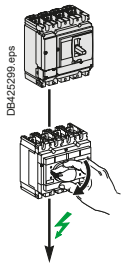
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NSXm, Compact NSX100 to 250
Downstream: Compact INS40 to 250, Compact INV100 to 250



Ue = 500/525 V AC

Downstream	Switch-disconnector	INS100	INS250-100 INV100	INS125	INS160	INS250-160 INV160	INS250-200 INV200	INS250 INV250
	Ith A 60°	100	100	125	160	160	200	250
	Icw (kA)	5.5	8.5	5.5	5.5	8.5	8.5	8.5
	Icm (kÂ)	20	30	20	20	30	30	30

Upstream Circuit breaker	Icu (kA) 500 V	525 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity						
NSXm E/B TMD	8/10	-	Ir ≤ 40	T	T	T	T	T	T	T
			Ir ≤ 50	T	T	T	T	T	T	T
			Ir ≤ 63	T	T	T	T	T	T	T
NSXm F TMD	15	10	Ir ≤ 40	T	T	T	T	T	T	T
			Ir ≤ 50	T	T	T	T	T	T	T
			Ir ≤ 63	T	T	T	T	T	T	T
NSXm N TMD	25	15	Ir ≤ 40	T	T	T	T	T	T	T
			Ir ≤ 50	T	T	T	T	T	T	T
			Ir ≤ 63	T	T	T	T	T	T	T
NSXm H TMD	30	22	Ir ≤ 40	T	T	T	T	T	T	T
			Ir ≤ 50	T	T	T	T	T	T	T
			Ir ≤ 63	T	T	T	T	T	T	T
NSX100B NSX160B NSX250B TMD / TMG / Micrologic	15	-	Ir ≤ 100	T	T	T	T	T	T	T
			Ir ≤ 125			T	T	T	T	T
			Ir ≤ 160				T	T	T	T
			Ir ≤ 200						T	T
			Ir ≤ 250							T
NSX100F NSX160F NSX250F TMD / TMG / Micrologic	25	22	Ir ≤ 100	T	T	T	T	T	T	T
			Ir ≤ 125			T	T	T	T	T
			Ir ≤ 160				T	T	T	T
			Ir ≤ 200						T	T
			Ir ≤ 250							T
NSX100N NSX160N NSX250N TMD / TMG / Micrologic	36	35	Ir ≤ 100	22/46	T	22/46	T	T	T	T
			Ir ≤ 125			22/46	T	T	T	T
			Ir ≤ 160				T	T	T	T
			Ir ≤ 200						T	T
			Ir ≤ 250							T
NSX100H NSX160H NSX250H TMD / TMG / Micrologic	50	35	Ir ≤ 100	22/46	T	22/46	T	T	T	T
			Ir ≤ 125			22/46	T	T	T	T
			Ir ≤ 160				T	T	T	T
			Ir ≤ 200						T	T
			Ir ≤ 250							T
NSX100S NSX160S NSX250S TMD / TMG / Micrologic	65	40	Ir ≤ 100	22/46	T	22/46	T	T	T	T
			Ir ≤ 125			22/46	T	T	T	T
			Ir ≤ 160				T	T	T	T
			Ir ≤ 200						T	T
			Ir ≤ 250							T
NSX100L NSX160L NSX250L TMD / TMG / Micrologic	70	50	Ir ≤ 100	22/46	T	22/46	T	T	T	T
			Ir ≤ 125			22/46	T	T	T	T
			Ir ≤ 160				T	T	T	T
			Ir ≤ 200						T	T
			Ir ≤ 250							T
NSX100R NSX250R TMD / TMG / Micrologic	80	65	Ir ≤ 100	22/46	T	22/46	T	T	T	T
			Ir ≤ 125			22/46	T	T	T	T
			Ir ≤ 160				T	T	T	T
			Ir ≤ 200						T	T
			Ir ≤ 250							T

T : Protection of the switch-disconnector is ensured but combination not very relevant

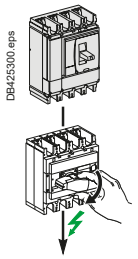
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NSX400 to 630
Downstream: Compact INS/INV100 to 630



Ue = 500/525 V AC

Downstream	Switch-Disconnector	INS250-100 INV100	INS250-160 INV160	INS250-200 INV200	INS250 INV250	INS320 INV320	INS400 INV400	INS500 INV500	INS630 INV630	INS630b INV630b
	Ith A 60°	100	160	200	250	320	400	500	630	630
	Icw (kA)	8.5	8.5	8.5	8.5	20	20	20	20	35
	Icm (kÂ)	30	30	30	30	50	50	50	50	75

Upstream Circuit breaker	Icu (kA) 500 V	525 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
NSX400F NSX630F Micrologic	25	20	Ir = 100 [1]	T	T	T	T	T	T	T	T	T
			Ir ≤ 160		T	T	T	T	T	T	T	T
			Ir ≤ 200			T	T	T	T	T	T	T
			Ir ≤ 250				T	T	T	T	T	T
			Ir ≤ 320					T	T	T	T	T
			Ir ≤ 400						T	T	T	T
			Ir ≤ 500							T	T	T
			Ir ≤ 630								T	T
NSX400N NSX630N Micrologic	30	22	Ir = 100 [1]	25/52	25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 160		25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 200			25/52	25/52	T	T	T	T	T
			Ir ≤ 250				25/52	T	T	T	T	T
			Ir ≤ 320					T	T	T	T	T
			Ir ≤ 400						T	T	T	T
			Ir ≤ 500							T	T	T
			Ir ≤ 630								T	T
NSX400H NSX630H Micrologic	50	35	Ir = 100 [1]	25/52	25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 160		25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 200			25/52	25/52	T	T	T	T	T
			Ir ≤ 250				25/52	T	T	T	T	T
			Ir ≤ 320					T	T	T	T	T
			Ir ≤ 400						T	T	T	T
			Ir ≤ 500							T	T	T
			Ir ≤ 630								T	T
NSX400S NSX630S Micrologic	65	40	Ir = 100 [1]	25/52	25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 160		25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 200			25/52	25/52	T	T	T	T	T
			Ir ≤ 250				25/52	T	T	T	T	T
			Ir ≤ 320					T	T	T	T	T
			Ir ≤ 400						T	T	T	T
			Ir ≤ 500							T	T	T
			Ir ≤ 630								T	T
NSX400L NSX630L Micrologic	70	50	Ir = 100 [1]	25/52	25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 160		25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 200			25/52	25/52	T	T	T	T	T
			Ir ≤ 250				25/52	T	T	T	T	T
			Ir ≤ 320					T	T	T	T	T
			Ir ≤ 400						T	T	T	T
			Ir ≤ 500							T	T	T
			Ir ≤ 630								T	T
NSX400R NSX630R Micrologic	80	65	Ir = 100 [1]	25/52	25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 160		25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 200			25/52	25/52	T	T	T	T	T
			Ir ≤ 250				25/52	T	T	T	T	T
			Ir ≤ 320					T	T	T	T	T
			Ir ≤ 400						T	T	T	T
			Ir ≤ 500							T	T	T
			Ir ≤ 630								T	T

[1] NSX400 with Micrologic 250 A can be set down to 100 A.

T : Protection of the switch-disconnector is ensured but combination not very relevant

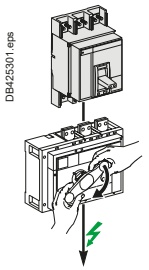
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NS630b to 3200, Masterpact MTZ1/2
Downstream: Compact INS/INV500 to 2500



Ue = 500/525 V AC

Downstream	Switch-disconnector	INS500 INV500	INS630 INV630	INS630b INV630b	INS800 INV800	INS1000 INV1000	INS1250 INV1250	INS1600 INV1600	INS2000 INV2000	INS2500 INV2500
	Ith A 60°	500	630	630	800	1000	1250	1600	2000	2500
	Icw (kA)	20	20	35	35	35	35	35	50	50
	Icm (kÂ)	50	50	75	75	75	75	75	105	105

Upstream Circuit breaker	Icu (kA) 500/525 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
NS630bN NS800N NS1000N NS1250N NS1600N	40	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 800				35/75	35/75	35/75	35/75	T	T
		Ir ≤ 1000					35/75	35/75	35/75	T	T
		Ir ≤ 1250						35/75	35/75	T	T
		Ir ≤ 1600							35/75	T	T
NS630bH NS800H NS1000H NS1250H NS1600H	50	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 800				35/75	35/75	35/75	35/75	T	T
		Ir ≤ 1000					35/75	35/75	35/75	T	T
		Ir ≤ 1250						35/75	35/75	T	T
		Ir ≤ 1600							35/75	T	T
NS630bL NS800L NS1000L	100	Ir ≤ 500	36/75	36/75	T	T	T	T	T	T	T
		Ir ≤ 630		36/75	T	T	T	T	T	T	T
		Ir ≤ 800				T	T	T	T	T	T
		Ir ≤ 1000					T	T	T	T	T
NS630bLB NS800LB	100	Ir ≤ 500	70/154	70/154	T	T	T	T	T	T	T
		Ir ≤ 630		70/154	T	T	T	T	T	T	T
		Ir ≤ 800				T	T	T	T	T	T
NS1600bN NS2000N NS2500N NS3200N	65	Ir ≤ 1250						35/75	35/75	50/105	50/105
		Ir ≤ 1600							35/75	50/105	50/105
		Ir ≤ 2000								50/105	50/105
		Ir ≤ 2500									50/105
MTZ1 06H1/H2 MTZ1 08H1/2 MTZ1 10H1/2 MTZ1 12H1/2 MTZ1 16H1/2	42	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 800				35/75	35/75	35/75	35/75	T	T
		Ir ≤ 1000					35/75	35/75	35/75	T	T
		Ir ≤ 1250						35/75	35/75	T	T
		Ir ≤ 1600							35/75	T	T
MTZ1 06L1 MTZ1 08L1 MTZ1 10L1	100	Ir ≤ 500	36/75	36/75	T	T	T	T	T	T	T
		Ir ≤ 630		36/75	T	T	T	T	T	T	T
		Ir ≤ 800				T	T	T	T	T	T
		Ir ≤ 1000					T	T	T	T	T
MTZ2 08N1 MTZ2 10N1 MTZ2 12N1 MTZ2 16N1 MTZ2 20N1	42	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 800				35/75	35/75	35/75	35/75	T	T
		Ir ≤ 1000					35/75	35/75	35/75	T	T
		Ir ≤ 1250						35/75	35/75	T	T
		Ir ≤ 1600							35/75	T	T
		Ir ≤ 2000								T	T
MTZ2 08 MTZ2 10 MTZ2 12 MTZ2 16 MTZ2 20 MTZ2 25 MTZ2 32 MTZ2 40	H1/H/H3/L1 66/85/130	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 800				35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 1000					35/75	35/75	35/75	50/105	50/105
		Ir ≤ 1250						35/75	35/75	50/105	50/105
		Ir ≤ 1600						35/75	35/75	50/105	50/105
		Ir ≤ 2000								50/105	50/105
		Ir ≤ 2500									50/105

T : Protection of the switch-disconnector is ensured but combination not very relevant

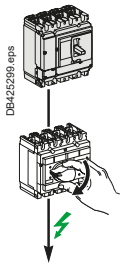
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NSXm, Compact NSX100 to 250
Downstream: Compact INS40 to 250, Compact INV100 to 250



Ue = 690 V AC

Downstream	Switch-disconnector	INS100	INS250-100 INV100	INS125	INS160	INS250-160 INV160	INS250-200 INV200	INS250 INV250
	Ith A 60°	100	100	125	160	160	200	200
	Icw (kA)	5.5	8.5	5.5	5.5	8.5	8.5	8.5
	Icm (kÂ)	20	30	20	20	30	30	30

Upstream Circuit breaker	Icu (kA) 690 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity						
NSXm N TMD	10	Ir ≤ 40	T	T	T	T	T	T	T
		Ir ≤ 50	T	T	T	T	T	T	T
		Ir ≤ 63	T	T	T	T	T	T	T
NSXm H TMD	10	Ir ≤ 40	T	T	T	T	T	T	T
		Ir ≤ 50	T	T	T	T	T	T	T
		Ir ≤ 63	T	T	T	T	T	T	T
NSX100F NSX160F NSX250F TMD / TMG / Micrologic	8	Ir ≤ 100	T	T	T	T	T	T	T
		Ir ≤ 125			T	T	T	T	T
		Ir ≤ 160				T	T	T	T
		Ir ≤ 200						T	T
		Ir ≤ 250							T
NSX100N NSX160N NSX250N TMD / TMG / Micrologic	10	Ir ≤ 100	T	T	T	T	T	T	T
		Ir ≤ 125			T	T	T	T	T
		Ir ≤ 160				T	T	T	T
		Ir ≤ 200						T	T
		Ir ≤ 250							T
NSX100H NSX160H NSX250H TMD / TMG / Micrologic	10	Ir ≤ 100	T	T	T	T	T	T	T
		Ir ≤ 125			T	T	T	T	T
		Ir ≤ 160				T	T	T	T
		Ir ≤ 200						T	T
		Ir ≤ 250							T
NSX100S NSX160S NSX250S TMD / TMG / Micrologic	15	Ir ≤ 100	T	T	T	T	T	T	T
		Ir ≤ 125			T	T	T	T	T
		Ir ≤ 160				T	T	T	T
		Ir ≤ 200						T	T
		Ir ≤ 250							T
NSX100L NSX160L NSX250L TMD / TMG / Micrologic	20	Ir ≤ 100	T	T	T	T	T	T	T
		Ir ≤ 125			T	T	T	T	T
		Ir ≤ 160				T	T	T	T
		Ir ≤ 200						T	T
		Ir ≤ 250							T
NSX100R NSX250R TMD / TMG / Micrologic	45	Ir ≤ 100	20/40	T	20/40	20/40	T	T	T
		Ir ≤ 125			20/40	20/40	T	T	T
		Ir ≤ 160				20/40	T	T	T
		Ir ≤ 200						T	T
		Ir ≤ 250							T

T : Protection of the switch-disconnector is ensured but combination not very relevant

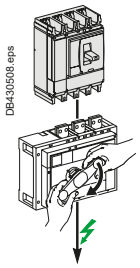
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NSX400 to 630
Downstream: Compact INS/INV100 to 630



Ue = 690 V AC

Downstream	Switch-disconnector	INS500 INV500	INS630 INV630	INS630b INV630b	INS800 INV800	INS1000 INV1000	INS1250 INV1250	INS1600 INV1600	INS2000 INV2000	INS2500 INV2500
	Ith A 60°	630	630	630	800	1000	1250	1600	2000	2500
	Icw (kA)	20	20	35	35	35	35	35	50	50
	Icm (kÂ)	50	50	75	75	75	75	75	105	105

Upstream Circuit breaker	Icu (kA) 690 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
NSX400F NSX630F Micrologic	10	Ir = 100 [1]	T	T	T	T	T	T	T	T	T
		Ir ≤ 160		T	T	T	T	T	T	T	T
		Ir ≤ 200			T	T	T	T	T	T	T
		Ir ≤ 250				T	T	T	T	T	T
		Ir ≤ 320					T	T	T	T	T
		Ir ≤ 400						T	T	T	T
		Ir ≤ 500							T	T	T
		Ir ≤ 630								T	T
NSX400N NSX630N Micrologic	10	Ir = 100 [1]	T	T	T	T	T	T	T	T	T
		Ir ≤ 160		T	T	T	T	T	T	T	T
		Ir ≤ 200			T	T	T	T	T	T	T
		Ir ≤ 250				T	T	T	T	T	T
		Ir ≤ 320					T	T	T	T	T
		Ir ≤ 400						T	T	T	T
		Ir ≤ 500							T	T	T
		Ir ≤ 630								T	T
NSX400H NSX630H Micrologic	20	Ir = 100 [1]	T	T	T	T	T	T	T	T	T
		Ir ≤ 160		T	T	T	T	T	T	T	T
		Ir ≤ 200			T	T	T	T	T	T	T
		Ir ≤ 250				T	T	T	T	T	T
		Ir ≤ 320					T	T	T	T	T
		Ir ≤ 400						T	T	T	T
		Ir ≤ 500							T	T	T
		Ir ≤ 630								T	T
NSX400S NSX630S Micrologic	25	Ir = 100 [1]	T	T	T	T	T	T	T	T	T
		Ir ≤ 160		T	T	T	T	T	T	T	T
		Ir ≤ 200			T	T	T	T	T	T	T
		Ir ≤ 250				T	T	T	T	T	T
		Ir ≤ 320					T	T	T	T	T
		Ir ≤ 400						T	T	T	T
		Ir ≤ 500							T	T	T
		Ir ≤ 630								T	T
NSX400L NSX630L Micrologic	35	Ir = 100 [1]	25/52	25/52	25/52	25/52	T	T	T	T	T
		Ir ≤ 160		25/52	25/52	25/52	T	T	T	T	T
		Ir ≤ 200			25/52	25/52	T	T	T	T	T
		Ir ≤ 250				25/52	T	T	T	T	T
		Ir ≤ 320					T	T	T	T	T
		Ir ≤ 400						T	T	T	T
		Ir ≤ 500							T	T	T
		Ir ≤ 630								T	T
NSX400R NSX630R Micrologic	45	Ir = 100 [1]	25/52	25/52	25/52	25/52	T	T	T	T	T
		Ir ≤ 160		25/52	25/52	25/52	T	T	T	T	T
		Ir ≤ 200			25/52	25/52	T	T	T	T	T
		Ir ≤ 250				25/52	T	T	T	T	T
		Ir ≤ 320					T	T	T	T	T
		Ir ≤ 400						T	T	T	T
		Ir ≤ 500							T	T	T
		Ir ≤ 630								T	T

[1] NSX400 with Micrologic 250 A can be set down to 100 A.

T : Protection of the switch-disconnector is ensured but combination not very relevant

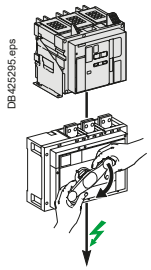
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NS630b to 3200, Masterpact MTZ1/2
Downstream: Compact INS/INV 500 to 2500



Ue = 690 V AC

Downstream	Switch-disconnector	INS500 INV500	INS630 INV630	INS630b INV630b	INS800 INV800	INS1000 INV1000	INS1250 INV1250	INS1600 INV1600	INS2000 INV2000	INS2500 INV2500
	Ith A 60°	630	630	630	800	1000	1250	1600	2000	2500
	Icw (kA)	20	20	35	35	35	35	35	50	50
	Icm (kÂ)	50	50	75	75	75	75	75	105	105

Upstream Circuit breaker	Icu (kA) 690 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
NS630bN NS800N NS1000N NS1250N NS1600N	30	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 800				35/75	35/75	35/75	35/75	T	T
		Ir ≤ 1000					35/75	35/75	35/75	T	T
		Ir ≤ 1250						35/75	35/75	T	T
		Ir ≤ 1600							35/75	T	T
NS630bH NS800H NS1000H NS1250H NS1600H	42	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 800				35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 1000					35/75	35/75	35/75	50/105	50/105
		Ir ≤ 1250						35/75	35/75	50/105	50/105
		Ir ≤ 1600							35/75	50/105	50/105
NS630bLB NS800LB	75	Ir ≤ 500	70/154	70/154	T	T	T	T	T	T	T
		Ir ≤ 630		70/154	T	T	T	T	T	T	T
		Ir ≤ 800				T	T	T	T	T	T
NS1600bN NS2000N NS2500N NS3200N	65	Ir ≤ 1250						35/75	35/75	50/105	50/105
		Ir ≤ 1600							35/75	50/105	50/105
		Ir ≤ 2000								50/105	50/105
		Ir ≤ 2500									50/105
MTZ1 06H1/H2 MTZ1 08H1/2 MTZ1 10H1/2 MTZ1 12H1/2 MTZ1 16H1/2	42	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 800				35/75	35/75	35/75	35/75	T	T
		Ir ≤ 1000					35/75	35/75	35/75	T	T
		Ir ≤ 1250						35/75	35/75	T	T
		Ir ≤ 1600							35/75	T	T
MTZ1 06L1 MTZ1 08L1 MTZ1 10L1	25	Ir ≤ 500	T	T	T	T	T	T	T	T	T
		Ir ≤ 630		T	T	T	T	T	T	T	T
		Ir ≤ 800				T	T	T	T	T	T
		Ir ≤ 1000					T	T	T	T	T
MTZ2 08N1 MTZ2 10N1 MTZ2 12N1 MTZ2 16N1 MTZ2 20N1	42	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 800				35/75	35/75	35/75	35/75	T	T
		Ir ≤ 1000					35/75	35/75	35/75	T	T
		Ir ≤ 1250						35/75	35/75	T	T
		Ir ≤ 1600							35/75	T	T
		Ir ≤ 2000								T	T
MTZ2 08 MTZ2 10 MTZ2 12 MTZ2 16 MTZ2 20 MTZ2 25 MTZ2 32 MTZ2 40	H1/H2/H3/L1 66/85/100/100	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 800				35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 1000					35/75	35/75	35/75	50/105	50/105
		Ir ≤ 1250						35/75	35/75	50/105	50/105
		Ir ≤ 1600						35/75	35/75	50/105	50/105
		Ir ≤ 2000								50/105	50/105
		Ir ≤ 2500									50/105

T : Protection of the switch-disconnector is ensured but combination not very relevant

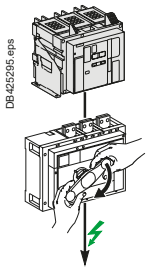
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NSX100 to 630
Downstream: Compact INS/INV500 to 1000



Ue = 500/525 V AC
Ue = 690 V AC

Downstream	Switch-disconnector	NSX100NA	NSX160NA	NSX250NA	NSX400NA	NSX630NA
	Ith A 60°	100	160	250	400	630
	Icw (kA)	1.8	2.5	3.5	5	6
	Icm (kÂ)	2.6	3.6	4.9	7.1	8.5

Upstream Circuit breaker	Icu (kA) 500 V	525 V	690 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity				
NSX100B **NSX160B** **NSX250B** TMD / TMG / Micrologic	15	-	-	Ir ≤ 50	T	T	T	T	T
				Ir ≤ 100	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
NSX100F **NSX160F** **NSX250F** TMD / TMG / Micrologic	25	22	8	Ir ≤ 50	T	T	T	T	T
				Ir ≤ 100	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
NSX400F **NSX630F** Micrologic	25	20	10	Ir = 100 [1]	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
				Ir ≤ 400				T	T
				Ir ≤ 630					T
NSX100N **NSX160N** **NSX250N** TMD / TMG / Micrologic	36	35	10	Ir ≤ 50	T	T	T	T	T
				Ir ≤ 100	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
NSX400N **NSX630N** Micrologic	30	22	10	Ir = 100 [1]	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
				Ir ≤ 400				T	T
				Ir ≤ 630					T
NSX100H **NSX160H** **NSX250H** TMD / TMG / Micrologic	50	35	10	Ir ≤ 50	T	T	T	T	T
				Ir ≤ 100	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
NSX400H **NSX630H** Micrologic	50	35	20	Ir = 100 [1]	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
				Ir ≤ 400				T	T
				Ir ≤ 630					T
NSX100S **NSX160S** **NSX250S** TMD / TMG / Micrologic	65	40	15	Ir ≤ 50	T	T	T	T	T
				Ir ≤ 100	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
NSX400S **NSX630S** Micrologic	65	40	25	Ir = 100 [1]	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
				Ir ≤ 400				T	T
				Ir ≤ 630					T
NSX100L **NSX160L** **NSX250L** TMD / TMG / Micrologic	70	50	20	Ir ≤ 50	T	T	T	T	T
				Ir ≤ 100	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
NSX400L **NSX630L** Micrologic	70	50	35	Ir = 100 [1]	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
				Ir ≤ 400				T	T
				Ir ≤ 630					T

[1] NSX400 with Micrologic 250 A can be set down to 100 A.

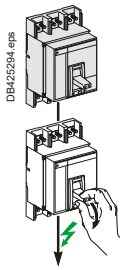
T : Protection of the switch-disconnector is ensured but combination not very relevant

T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NS630b to 3200, Masterpact MTZ1
Downstream: Compact NS630b to 3200 NA



Ue = 500/525 V AC
Ue = 690 V AC

Downstream	Switch-disconnector	NS630b NA	NS800 NA	NS1000 NA	NS1250 NA	NS1600 NA	NS1600b NA	NS2000 NA	NS2500 NA	NS3200 NA
	Ith A 60°	630	800	1000	1250	1600	1600	2000	2500	3200
	Icw (kA)	25 (0.5s)	25 (0.5s)	25 (0.5s)	25 (0.5s)	25 (0.5s)	32 (3s)	32 (3s)	32 (3s)	32 (3s)
	Icm (kÂ)	52	52	52	52	52	135	135	135	135

Upstream	Icu (kA)		Setting								
Circuit breaker	500/525 V	690 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity							
NS630bN	40	30	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800N			Ir ≤ 800		T	T	T	T	T	T	T	T
NS1000N			Ir ≤ 1000			T	T	T	T	T	T	T
NS1250N			Ir ≤ 1250				T	T	T	T	T	T
NS1600N			Ir ≤ 1600					T	T	T	T	T
NS630bH	50	42	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800H			Ir ≤ 800		T	T	T	T	T	T	T	T
NS1000H			Ir ≤ 1000			T	T	T	T	T	T	T
NS1250H			Ir ≤ 1250				T	T	T	T	T	T
NS1600H			Ir ≤ 1600					T	T	T	T	T
NS630bL	100	-	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800L			Ir ≤ 800		T	T	T	T	T	T	T	T
NS1000L			Ir ≤ 1000			T	T	T	T	T	T	T
NS630bLB	100	75	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800LB			Ir ≤ 800		T	T	T	T	T	T	T	T
NS1600bN	65	65	Ir ≤ 1600						T	T	T	T
NS2000N			Ir ≤ 2000							T	T	T
NS2500N			Ir ≤ 2500								T	T
NS3200N			Ir ≤ 3200									T
MTZ1 06H1	42	42	Ir ≤ 630	25/52	25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 08H1			Ir ≤ 800		25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 10H1			Ir ≤ 1000			25/52	25/52	25/52	T	T	T	T
MTZ1 12H1			Ir ≤ 1250				25/52	25/52	T	T	T	T
MTZ1 16H1			Ir ≤ 1600					25/52	T	T	T	T
MTZ1 06L1	100	25	Ir ≤ 630	T	T	T	T	T	T	T	T	T
MTZ1 08L1			Ir ≤ 800		T	T	T	T	T	T	T	T
MTZ1 10L1			Ir ≤ 1000			T	T	T	T	T	T	T

T : Protection of the switch-disconnector is ensured but combination not very relevant

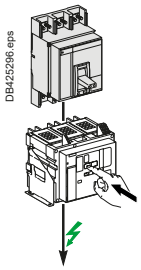
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Compact NS630b to1600, Masterpact MTZ1, MTZ2
Downstream: Masterpact MTZ1 HA, Masterpact MTZ2 NA



Ue = 500/525 V AC
Ue = 690 V AC

Downstream	Switch-disconnector	MTZ1 06HA	MTZ1 08HA	MTZ1 10HA	MTZ1 12HA	MTZ1 16HA	MTZ2 08NA	MTZ2 10NA	MTZ2 12NA	MTZ2 16NA
	Ith A 60°	630	800	1000	1250	1600	800	1000	1250	1600
	Icw (kA)	36	36	36	36	36	42	42	42	42
	Icm (kÂ)	75	75	75	75	75	88	88	88	88

Upstream	Icu (kA)		Setting								
Circuit breaker	500/525 V	690 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity							
NS630bN	40	30	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800N			Ir ≤ 800		T	T	T	T	T	T	T	T
NS1000N			Ir ≤ 1000			T	T	T		T	T	T
NS1250N			Ir ≤ 1250				T	T			T	T
NS1600N			Ir ≤ 1600					T				T
NS630bH	50	42	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800H			Ir ≤ 800		T	T	T	T	T	T	T	T
NS1000H			Ir ≤ 1000			T	T	T		T	T	T
NS1250H			Ir ≤ 1250				T	T			T	T
NS1600H			Ir ≤ 1600					T				T
NS630bL	100	-	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800L			Ir ≤ 800		T	T	T	T	T	T	T	T
NS1000L			Ir ≤ 1000			T	T	T		T	T	T
NS630bLB	100	75	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800LB			Ir ≤ 800		T	T	T	T	T	T	T	T
MTZ1 06H1/2	42	42	Ir ≤ 630	36/75	36/75	36/75	36/75	36/75	T	T	T	T
MTZ1 08H1/2			Ir ≤ 800		36/75	36/75	36/75	36/75	T	T	T	T
MTZ1 10H1/2			Ir ≤ 1000			36/75	36/75	36/75		T	T	T
MTZ1 12H1/2			Ir ≤ 1250				36/75	36/75			T	T
MTZ1 16H1/2			Ir ≤ 1600					36/75				T
MTZ1 06L1	100	25	Ir ≤ 630	T	T	T	T	T	T	T	T	T
MTZ1 08L1			Ir ≤ 800		T	T	T	T	T	T	T	T
MTZ1 10L1			Ir ≤ 1000			T	T	T		T	T	T
MTZ2 08N1	42	42	Ir ≤ 800		36/75	36/75	36/75	36/75	T	T	T	T
MTZ2 10N1			Ir ≤ 1000			36/75	36/75	36/75		T	T	T
MTZ2 12N1			Ir ≤ 1250				36/75	36/75			T	T
MTZ2 16N1			Ir ≤ 1600					36/75				T
MTZ2 20N1												
MTZ2 08H1	66	66	Ir ≤ 800		36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ2 10H1			Ir ≤ 1000			36/75	36/75	36/75		42/88	42/88	42/88
MTZ2 12H1			Ir ≤ 1250				36/75	36/75			42/88	42/88
MTZ2 16H1			Ir ≤ 1600					36/75				42/88
MTZ2 20H1												

T : Protection of the switch-disconnector is ensured but combination not very relevant

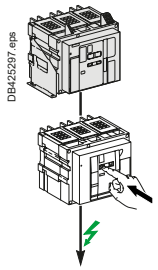
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Masterpact MTZ2, MTZ3
Downstream: Masterpact MTZ2 HA, MTZ3 HA



Ue = 500/525 V AC
Ue = 690 V AC

Downstream	Switch-disconnector	MTZ2 08 HA	MTZ2 10 HA	MTZ2 12 HA	MTZ2 16 HA	MTZ2 20 HA	MTZ2 25 HA	MTZ2 32 HA	MTZ2 40 HA	MTZ3 40 HA	MTZ3 50 HA	MTZ3 63 HA
	Ith A 60°	800	1000	1250	1600	2000	2500	3200	4000	4000	5000	6300
	Icw (kA)	66	66	66	66	66	66	66	66	85	85	85
	Icm (kÂ)	145	145	145	145	145	145	145	145	187	187	187

Upstream	Icu (kA)		Setting	Switch-disconnector conditionnal short-circuit current and related making capacity										
Circuit breaker	500/525 V	690 V	Ir											
MTZ2 08N1	42	42	Ir ≤ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10N1			Ir ≤ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12N1			Ir ≤ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16N1			Ir ≤ 1600				T	T	T	T	T	T	T	T
MTZ2 20N1			Ir ≤ 2000					T	T	T	T	T	T	T
MTZ2 08H1	66	66	Ir ≤ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10H1			Ir ≤ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12H1			Ir ≤ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16H1			Ir ≤ 1600				T	T	T	T	T	T	T	T
MTZ2 20H1			Ir ≤ 2000					T	T	T	T	T	T	T
MTZ2 25H1			Ir ≤ 2500						T	T	T	T	T	T
MTZ2 32H1			Ir ≤ 3200							T	T	T	T	T
MTZ2 40H1			Ir ≤ 4000								T	T	T	T
MTZ3 40H1	100	100	Ir ≤ 4000								66/145	85/187	85/187	85/187
MTZ3 50H1			Ir ≤ 5000										85/187	85/187
MTZ3 63H1			Ir ≤ 6300											85/187
MTZ2 08H2	85	85	Ir ≤ 800	66/145	66/145	66/145	66/145	66/145	66/145	66/145	66/145	T	T	T
MTZ2 10H2			Ir ≤ 1000		66/145	66/145	66/145	66/145	66/145	66/145	66/145	T	T	T
MTZ2 12H2			Ir ≤ 1250			66/145	66/145	66/145	66/145	66/145	66/145	T	T	T
MTZ2 16H2			Ir ≤ 1600				66/145	66/145	66/145	66/145	66/145	T	T	T
MTZ2 20H2			Ir ≤ 2000					66/145	66/145	66/145	66/145	T	T	T
MTZ2 25H2			Ir ≤ 2500						66/145	66/145	66/145	T	T	T
MTZ2 32H2			Ir ≤ 3200							66/145	66/145	T	T	T
MTZ2 40H2			Ir ≤ 4000								66/145	T	T	T
MTZ2 08L1	130	100	Ir ≤ 800	66/145	66/145	66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 10L1			Ir ≤ 1000		66/145	66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 12L1			Ir ≤ 1250			66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 16L1			Ir ≤ 1600				66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 20L1			Ir ≤ 2000					66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 20H3	130	100	Ir ≤ 2000					66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 25H3			Ir ≤ 2500						66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 32H3			Ir ≤ 3200							66/145	66/145	85/187	85/187	85/187
MTZ2 40H3			Ir ≤ 4000								66/145	85/187	85/187	85/187
MTZ3 40H2	130	100	Ir ≤ 4000								66/145	85/187	85/187	85/187
MTZ3 50H2			Ir ≤ 5000										85/187	85/187
MTZ3 63H2			Ir ≤ 6300											85/187

T : Protection of the switch-disconnector is ensured but combination not very relevant

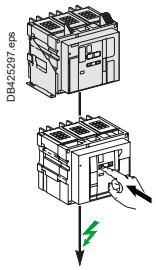
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Masterpact MTZ1, MTZ2
Downstream: Masterpact NW HF, NW HH



Ue = 500/525 V AC
Ue = 690 V AC

Downstream	Switch-disconnector	NW08 HF	NW10 HF	NW12 HF	NW16 HF	NW20 HF	NW25 HF	NW32 HF	NW40 HF	NW40b HH	NW50 HH	NW63 HH
	Ith A 60°	800	1000	1250	1600	2000	2500	3200	4000	4000	5000	6300
	Icw (kA)	85	85	85	85	85	85	85	85	100	100	100
	Icm (kÂ)	187	187	187	187	187	187	187	187	220	220	220

Upstream Circuit breaker	Icu (kA) 525 V	Icu (kA) 690 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity										
MTZ2 08N1	42	42	Ir ≤ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10N1			Ir ≤ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12N1			Ir ≤ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16N1			Ir ≤ 1600				T	T	T	T	T	T	T	T
MTZ2 20N1			Ir ≤ 2000					T	T	T	T	T	T	T
MTZ2 08H1	66	66	Ir ≤ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10H1			Ir ≤ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12H1			Ir ≤ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16H1			Ir ≤ 1600				T	T	T	T	T	T	T	T
MTZ2 20H1			Ir ≤ 2000					T	T	T	T	T	T	T
MTZ2 25H1			Ir ≤ 2500						T	T	T	T	T	T
MTZ2 32H1			Ir ≤ 3200							T	T	T	T	T
MTZ2 40H1			Ir ≤ 4000								T	T	T	T
MTZ3 40H1	100	100	Ir ≤ 2500						85/187	85/187	85/187	T	T	T
MTZ3 50H1			Ir ≤ 3200							85/187	85/187	T	T	T
MTZ3 63H1			Ir ≤ 4000								85/187	T	T	T
			Ir ≤ 5000										T	T
			Ir ≤ 6300											T
MTZ2 08H2	85	85	Ir ≤ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10H2			Ir ≤ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12H2			Ir ≤ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16H2			Ir ≤ 1600				T	T	T	T	T	T	T	T
MTZ2 20H2			Ir ≤ 2000					T	T	T	T	T	T	T
MTZ2 25H2			Ir ≤ 2500						T	T	T	T	T	T
MTZ2 32H2			Ir ≤ 3200							T	T	T	T	T
MTZ2 40H2			Ir ≤ 4000								T	T	T	T
MTZ2 08L1	130	100	Ir ≤ 800	85/187	85/187	85/187	85/187	85/187	85/187	85/187	85/187	100/220	100/220	100/220
MTZ2 10L1			Ir ≤ 1000		85/187	85/187	85/187	85/187	85/187	85/187	85/187	100/220	100/220	100/220
MTZ2 12L1			Ir ≤ 1250			85/187	85/187	85/187	85/187	85/187	85/187	100/220	100/220	100/220
MTZ2 16L1			Ir ≤ 1600				85/187	85/187	85/187	85/187	85/187	100/220	100/220	100/220
MTZ2 20L1			Ir ≤ 2000					85/187	85/187	85/187	85/187	100/220	100/220	100/220
MTZ2 20H3	130	100	Ir ≤ 2000					85/187	85/187	85/187	85/187	100/220	100/220	100/220
MTZ2 25H3			Ir ≤ 2500						85/187	85/187	85/187	100/220	100/220	100/220
MTZ2 32H3			Ir ≤ 3200							85/187	85/187	100/220	100/220	100/220
MTZ2 40H3			Ir ≤ 4000								85/187	100/220	100/220	100/220
MTZ3 40H2	130	100	Ir ≤ 2500						85/187	85/187	85/187	100/220	100/220	100/220
MTZ3 50H2			Ir ≤ 3200							85/187	85/187	100/220	100/220	100/220
MTZ3 63H2			Ir ≤ 4000								85/187	100/220	100/220	100/220
			Ir ≤ 5000										100/220	100/220
			Ir ≤ 6300											100/220

T : Protection of the switch-disconnector is ensured but combination not very relevant

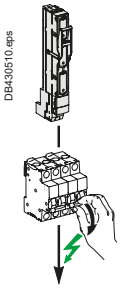
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Fuse coordination

Upstream: gG Fuse
Downstream: iSW-NA, iID, iSW, NG125NA



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	iSW-NA				iID [1]				
	Rating (A)	40	63	80	100	25	40	63	100	125
	Icw (kA)	800	1260	1600	2000	500	800	1260	1200	1500
	Icm (kÂ)	5	5	5	5	5	5	5	5	5

Upstream Fuse type	Rating (A)	Switch-disconnector conditionnal short-circuit current and related making capacity								
gG fuse link without overload relay	16	T	T	T	T	T	T	T	T	T
	20	T	T	T	T		T	T	T	T
	25	T	T	T	T		T	T	T	T
	32		80/176	80/176	80/176			80/176	80/176	80/176
	40		80/176	80/176	80/176			80/176	80/176	80/176
	50			30/63	30/63				30/63	30/63
	63				30/63					30/63

Downstream	Switch-disconnector	iSW				NG125NA			
	Rating (A)	40	63	100	125	63	80	100	125
	Icw (kA)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Icm (kÂ)	5	5	5	5	2	2	2	2

Upstream Fuse type	Rating (A)	Switch-disconnector conditionnal short-circuit current and related making capacity							
gG fuse link without overload relay	16	60/132	60/132	60/132	60/132	T	T	T	T
	20	40/84	40/84	40/84	40/84	T	T	T	T
	25	25/52	25/52	25/52	25/52	T	T	T	T
	32		20/40	20/40	20/40	80/176	80/176	80/176	80/176
	40		10/17	10/17	10/17	80/176	80/176	80/176	80/176
	50			10/17	10/17		50/105	50/105	50/105
	63			10/17	10/17			50/105	50/105
	80				10/17				50/105

T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

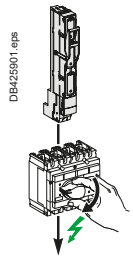
36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Note: Current limitation caracteristics can be signifiantly different from one manufacturer to another.
This table can not dispense to check selected fuse charactersistics

Switch-disconnector - Fuse coordination

Upstream: gG, aM, BS fuses
Downstream: Compact INS40 to 630, INV100 to 360



Ue ⩽ 500 V AC

Downstream	Switch-Disconnector	Compact INS 40 - 160						Compact INS250 Compact INV				Compact INS Compact INV			
	Ith (A) 60°	40	63	80	100	125	160	100	160	200	250	320	400	500	630
	Icw (kA)	3	3	3	5.5	5.5	5.5	8.5	8.5	8.5	8.5	20	20	20	20
	Icm (kÂ)	15	15	15	20	20	20	30	30	30	30	50	50	50	50

Upstream Fuse type	Rating	Switch-disconnector conditionnal short-circuit current and related making capacity													
gG fuse link without overload relay	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	32	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	40		T	T	T	T	T	T	T	T	T	T	T	T	T
	50		T	T	T	T	T	T	T	T	T	T	T	T	T
	63				T	T	T	T	T	T	T	T	T	T	T
	80				T	T	T	T	T	T	T	T	T	T	T
	100					T	T		T	T	T	T	T	T	T
	125						T		T	T	T	T	T	T	T
	160									T	T	T	T	T	T
	200										T	T	T	T	T
	225-250											T	T	T	T
	300-315												T	T	T
	355													T	T
	400													T	T
	450														T
	500														T
gG fuse link with overload relay	40	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50-63	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	80	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	125	80/176	80/176	80/176	T	T	T	T	T	T	T	T	T	T	T
	160	36/75	36/75	36/75	50/105	50/105	50/105	T	T	T	T	T	T	T	T
	200				36/75	36/75	36/75	T	T	T	T	T	T	T	T
	225-250							T	T	T	T	T	T	T	T
	300							T	T	T	T	T	T	T	T
	315							T	T	T	T	T	T	T	T
	355							50/105	50/105	50/105	50/105	T	T	T	T
	400-450											T	T	T	T
	500											T	T	T	T
	630											50/105	50/105	50/105	50/105
	800														
aM Fuse link with overload relay	40	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50 - 63	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	80	80/176	80/176	80/176	T	T	T	T	T	T	T	T	T	T	T
	100	50/105	50/105	50/105	T	T	T	T	T	T	T	T	T	T	T
	125				T	T	T	T	T	T	T	T	T	T	T
	160				50/105	50/105	50/105	T	T	T	T	T	T	T	T
	200				36/75	36/75	36/75	T	T	T	T	T	T	T	T
	225							80/176	80/176	80/176	80/176	T	T	T	T
	250							50/105	50/105	50/105	50/105	T	T	T	T
	300-315											T	T	T	T
	355-400											T	T	T	T
	450											50/105	50/105	50/105	50/105
	500											50/105	50/105	50/105	50/105
	630											30/63	30/63	30/63	30/63
BS Fuse link with overload relay	32M63	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	63M80	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	63M100	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100M125	50/105	50/105	50/105	T	T	T	T	T	T	T	T	T	T	T
	100M160				50/105	50/105	50/105	T	T	T	T	T	T	T	T
	100M200							T	T	T	T	T	T	T	T
	200M250							T	T	T	T	T	T	T	T
	200M315											T	T	T	T
	315M400											50/105	50/105	50/105	50/105
	400M500												40/84	40/84	40/84

T : Protection of the switch-disconnector is ensured but combination not very relevant

T : Switch-disconnector is totally coordinated up to the breaking capacity of the fuse installed on supply side.

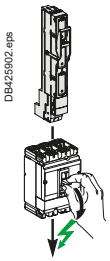
36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Note: Current limitation caracteristics can be signifiantly different from one manufacturer to another.
This table can not dispense to check selected fuse charactersistics

Switch-disconnector - Fuse coordination

Upstream: gG, aM, BS fuses
Downstream: Compact NSXm50 to 160NA, NSX100 to 630NA



Ue ⩽ 500 V AC

Downstream	Switch-Disconnector	NSXm50NA	NSXm100NA	NSXm160NA	NSX100NA	NSX160NA	NSX250NA	NSX400NA	NSX630NA
	Ith (A) 60°	50	100	160	100	160	250	400	630
	Icw (kA)	50	100	160	1,8	2,5	3,5	5	6
	Icm (kÂ)	0,9 1,38	1,5 2,13	1,5 2,13	2,6	3,6	4,9	7,1	8,5

Upstream Fuse type	Rating	Switch-disconnector conditionnal short-circuit current and related making capacity							
gG fuse link without overload relay	40	T	T	T	T	T	T	T	T
	50-63		T	T	T	T	T	T	T
	80		T	T	T	T	T	T	T
	100			T		T	T	T	T
	125			T		T	T	T	T
	160						T	T	T
	200						T	T	T
	225-250							T	T
	300-315							T	T
	355								T
	400-450								T
	500								T
gG fuse link with overload relay	40	T	T	T	T	T	T	T	T
	50-63	T	T	T	T	T	T	T	T
	80		T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T
	125			T		T	T	T	T
	160			T		T	T	T	T
	200						T	T	T
	225-250						T	T	T
	300-315							T	T
	355							T	T
	400-450							T	T
	500								T
	630								T
aM Fuse link with overload relay	40	T	T	T	T	T	T	T	T
	50 - 63	T	T	T	T	T	T	T	T
	80		T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T
	125			T		T	T	T	T
	160			T		T	T	T	T
	200						T	T	T
	225-250						T	T	T
	300-315							T	T
	355							T	T
	400-450								T
	500								T
	630								T
BS Fuse link with overload relay	32M63	T	T	T	T	T	T	T	T
	63M80		T	T	T	T	T	T	T
	63M100		T	T	T	T	T	T	T
	100M125		T	T	T	T	T	T	T
	100M160		T	T	T	T	T	T	T
	100M200						T	T	T
	200M250						T	T	T
	200M315							T	T
	315M400							T	T
	400M500								T

T : Protection of the switch-disconnector is ensured but combination not very relevant

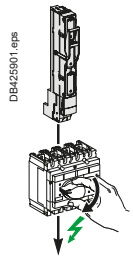
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

: Protection of the switch-disconnector is not ensured

Note: Current limitation caracteristics can be signifiantly different from one manufacturer to another.
This table can not dispense to check selected fuse charactersistics

Switch-disconnector - Fuse coordination

Upstream: gG, aM, BS fuses
Downstream: Compact INS40 to 630, INV100 to 630



Ue ⩽ 690 V AC

Downstream	Switch-Disconnector	Compact INS 40 - 160			Compact INS250 Compact INV				Compact INS Compact INV			
	Ith (A) 60°	100	125	160	100	160	200	250	320	400	500	630
	Icw (kA)	5.5	5.5	5.5	8.5	8.5	8.5	8.5	20	20	20	20
	Icm (kÂ)	20	20	20	30	30	30	30	50	50	50	50
Upstream												
Fuse type	**Rating**											
gG fuse link without overload relay	25	T	T	T	T	T	T	T	T	T	T	T
	32	T	T	T	T	T	T	T	T	T	T	T
	40	T	T	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T	T	T
	63	T	T	T	T	T	T	T	T	T	T	T
	80	T	T	T	T	T	T	T	T	T	T	T
	100	T	T		T	T	T	T	T	T	T	T
	125		T		T	T	T	T	T	T	T	T
	160					T	T	T	T	T	T	T
	200						T	T	T	T	T	T
	225-250							T	T	T	T	T
	300-315								T	T	T	T
	355									T	T	T
	400									T	T	T
	450										T	T
	500										T	T
gG fuse link with overload relay	40	T	T	T	T	T	T	T	T	T	T	T
	50-63	T	T	T	T	T	T	T	T	T	T	T
	80	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T
	125	T	T	T	T	T	T	T	T	T	T	T
	160			T	T	T	T	T	T	T	T	T
	200			T	T	T	T	T	T	T	T	T
	225-250							T	T	T	T	T
	300							T	T	T	T	T
	315							T	T	T	T	T
	355							T	T	T	T	T
	400-450							T	T	T	T	T
	500							T	T	T	T	T
	630							50/105	50/105	50/105	50/105	50/105
	800											
aM Fuse link with overload relay	40	T	T	T	T	T	T	T	T	T	T	T
	50 - 63	T	T	T	T	T	T	T	T	T	T	T
	80	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T
	125			T	T	T	T	T	T	T	T	T
	160			T	T	T	T	T	T	T	T	T
	200			T	T	T	T	T	T	T	T	T
	225			50/105	50/105	50/105	50/105	T	T	T	T	T
	250							T	T	T	T	T
	300-315							T	T	T	T	T
	355-400							T	T	T	T	T
	450							50/105	50/105	50/105	50/105	50/105
	500							50/105	50/105	50/105	50/105	50/105
	630											30/63

T : Protection of the switch-disconnector is ensured but combination not very relevant

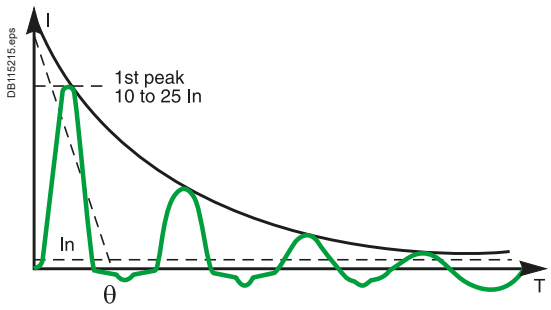
T : Switch-disconnector is totally coordinated up to Icu of circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

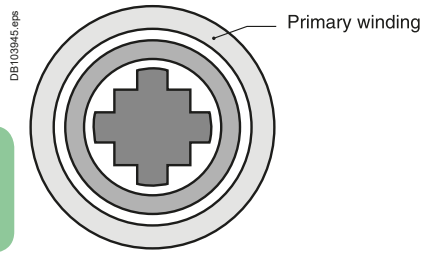
Note: Current limitation caracteristics can be signifiantly different from one manufacturer to another.
This table can not dispense to check selected fuse charactersistics.

Protection of LV/LV transformers and capacitors



Inrush currents

When LV/LV transformers are switched on, very high inrush currents are produced which must be taken into account when choosing overcurrent protection devices.
The peak value of the first current wave often reaches 10 to 15 times the rated rms current of the transformer and may reach values of 20 to 25 times the rated current even for transformers rated less than 50 kVA.



Selecting the protection

Schneider Electric has conducted an extensive test programme to optimise the protection of LV/LV transformers.
The Compact and Masterpact circuit breakers detailed in the following tables offer the following advantages:

- protection of the transformer in the event of abnormal overloads
- no nuisance tripping when the primary winding is energised
- unimpaired electrical endurance of the circuit breaker.

The transformers used for the tests are standard. The values in the tables have been calculated for a crest factor of 25. These tables indicate the circuit breaker and trip unit to be used depending on:

- the primary supply voltage (230 V or 400 V)
- the type of transformer (single-phase or three-phase).

They correspond to the most frequent case in which the primary is wound externally [1].
The type of circuit breaker to be used (i.e. N, H or L) depends on the breaking capacity required at the point of installation.

Protection using a Compact circuit breaker (1st peak ⩽ 25 In)

Compact NSX100 to NSX250 equipped with TM-D thermal-magnetic trip unit					
Transformer rating (kVA)			Protective device		
230/240 V 1-phase	230/240 V 3-phases 400/415 V 1-phase	400/415 V 3-phases	Circuit breakers	Trip unit	Ir max setting
3	5 to 6	9 to 12	NSX100B/F/N/H/S/L	TM16D	1
5	8 to 9	14 to 16	NSX100B/F/N/H/S/L	TM25D	1
7 to 9	13 to 16	22 to 28	NSX100B/F/N/H/S/L/R	TM40D	1
12 to 15	20 to 25	35 to 44	NSX100B/F/N/H/S/L/R	TM63D	1
16 to 19	26 to 32	45 to 56	NSX100B/F/N/H/S/L/R	TM80D	1
18 to 23	32 to 40	55 to 69	NSX160B/F/N/H/S/L	TM100D	1
23 to 29	40 to 50	69 to 87	NSX160B/F/N/H/S/L	TM125D	1
29 to 37	51 to 64	89 to 111	NSX250B/F/N/H/S/L/R	TM160D	1
37 to 46	64 to 80	111 to 139	NSX250B/F/N/H/S/L/R	TM200D	1

Compact NSX100 to NS1600 / Masterpact equipped with Micrologic trip unit

Transformer rating (kVA)			Protective device		
230/240 V 1-phase	230/240 V 3-phases 400/415 V 1-phase	400/415 V 3-phases	Circuit breakers	Trip unit	Ir max setting
4 to 7	6 to 13	11 to 22	NSX100B/F/N/H/S/L/R	Micrologic 2.2, 4.2, 5.2, 6.2, 7.2 40	0.8
9 to 19	16 to 30	27 to 56	NSX100B/F/N/H/S/L/R	Micrologic 2.2, 4.2, 5.2, 6.2, 7.2 100	0.8
15 to 30	05 to 50	44 to 90	NSX160B/F/N/H/S/L	Micrologic 2.2, 4.2, 5.2, 6.2, 7.2 160	0.8
23 to 46	40 to 80	70 to 139	NSX250B/F/N/H/S/L/R	Micrologic 2.2, 4.2, 5.2, 6.2, 7.2 250	0.8
37 to 65	64 to 112	111 to 195	NSX400F/N/H/S/L/R	Micrologic 2.3, 4.3, 5.3, 6.3, 7.3 400	0.7
58 to 83	100 to 144	175 to 250	NSX630F/N/H/S/L/R	Micrologic 2.3, 4.3, 5.3, 6.3, 7.3 630	0.6
58 to 150	100 to 250	175 to 436	NS630bN/bH-NT06H1	Micrologic 5.0/6.0/7.0	1
74 to 184	107 to 319	222 to 554	NS800N/H-MTZ108H1-MTZ208N1/H1	Micrologic 5.0/6.0/7.0	1
90 to 230	159 to 398	277 to 693	NS1000N/H-MTZ110H1-MTZ210N1/H1	Micrologic 5.0/6.0/7.0	1
115 to 288	200 to 498	346 to 866	NS1250N/H-MTZ112H1-MTZ212N1/H1	Micrologic 5.0/6.0/7.0	1
147 to 368	256 to 640	443 to 1108	NS1600N/H-MTZ116H1-MTZ216N1/H1	Micrologic 5.0/6.0/7.0	1
184 to 460	320 to 800	554 to 1385	MTZ220N1/H1	Micrologic 5.0/6.0/7.0	1
230 to 575	400 to 1000	690 to 1730	MTZ225H2/H3	Micrologic 5.0/6.0/7.0	1
294 to 736	510 to 1280	886 to 2217	MTZ232H2/H3	Micrologic 5.0/6.0/7.0	1

[1] For other windings, please consult us.
If a circuit breaker upstream of a transformer with a transformation ratio of 1 and a rated power of less than 5 kVA is subject to nuisance tripping, before choosing a circuit breaker with a higher rating, invert the input and the output of the transformer (the inrush current may be doubled if the primary is wound internally rather than externally).
NS630b L, LB, NS800 L LB, NS1000L, MTZ1 06 08 10 L1 can not be used without checking the inrush current is below their fast tripping caracteristics. Consult us.

Protection of LV/LV transformers and capacitors

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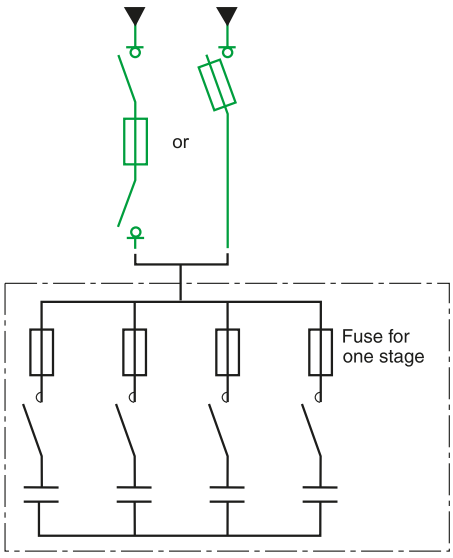

Capacitor-bank protection.

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Rectimat 2 capacitor bank.

Protection of capacitors

It is necessary to take into account:

- permissible variations in the fundamental voltage and in harmonic content

The increase in the current rating for the protection device may reach 30 %.

- variations due to capacitor tolerances.

The increase in the current rating for the protection device may reach 15 % (but only 5 % for Rectiphase capacitors).

Given the above, the generally required correction factor ranges from 1.6 to 2.

For Rectiphase capacitor banks, an optimised factor of only 1.4 may be used for standard banks.

Protection table for fixed or automatic capacitor banks

400/415 V Capacitor (kVAR)	gG fuse-link rating	Fupact
10 kVAR	20 A	INF●32 / INFD40
20 kVAR	40 A	INF●63 / INFD40
30 kVAR	63 A	INF●63
50 kVAR	100 A	INF●125
60 kVAR	125 A	INF●125
80 kVAR	160 A	INF●250
105 kVAR	250 A	INF●250
150 kVAR	315 A	INF●400
210 kVAR	450 A	INF●630
315 kVAR	670 A	INF●800

690 V Capacitor (kVAR)	gG fuse-link rating	Fupact
10 kVAR	16 A	INF●32 / INFD40
20 kVAR	32 A	INF●32 / INFD40
30 kVAR	40 A	INF●63 / INFD40
50 kVAR	63 A	INF●63
60 kVAR	80 A	INF●125
80 kVAR	100 A	INF●125
105 kVAR	125 A	INF●160
150 kVAR	200 A	INF●250
210 kVAR	250 A	INF●400
315 kVAR	400 A	INF●400
405 kVAR	500 A	INF●630
450 kVAR	560 A	INF●630
495 kVAR	630 A	INF●800
540 kVAR	670 A	INF●800

Coordination tables between circuit breaker and Canalis electrical busbar trunking

When chosing a circuit breaker to protect a busbar trunking system, it is necessary to take into account:

- the usual rules concerning the circuit breaker current settings:

Ib ⩽ Ir ⩽ Inc where:
Ib = maximum load current
Ir = circuit breaker current setting
Inc = current rating of the busbar trunking

- the electrodynamic withstand of the busbar trunking: the peak current Î limited by the circuit breaker must be less than the electrodynamic withstand capacity (or rated peak current) of the busbar trunking.

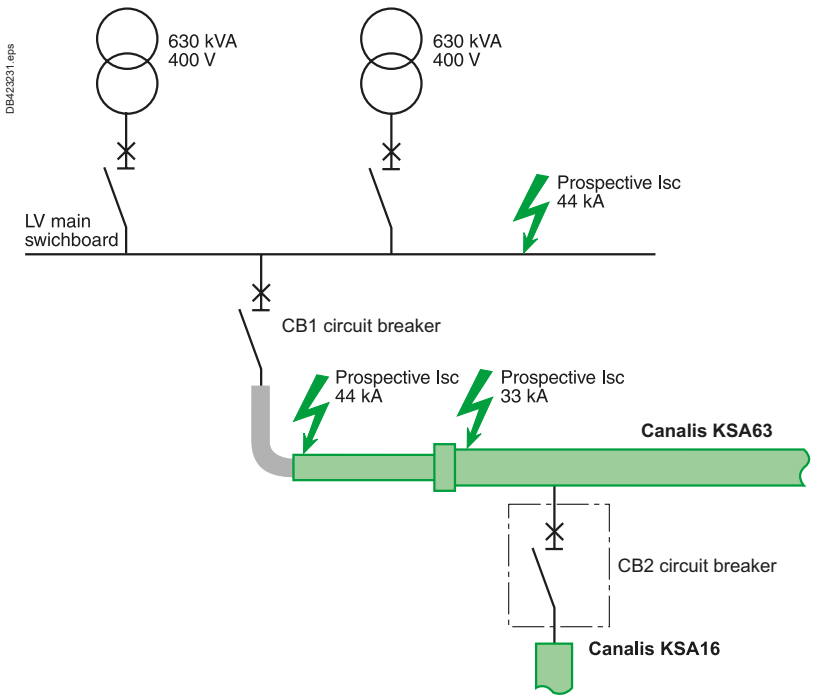
The following tables provide maximum prospective short-circuit current where busbar trunking systems can be installed in coordination with specified circuit breaker.
Different coordination tables are provided for 400V and 690V systems

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Example
Consider two 630 kVA/400 V transformer (Usc 4 %) supplying a main LV switchboard for which the prospective short-circuit current on the busbars is 44 kA.
From the switchboard, a 30-metre long Canalis KSA63 transmission electrical busbar trunking system (630 A) supplies a Canalis KSA63 trunking system (630A) for distribution with high-density tap-offs.
A tap-off on the KSA63 trunking supplies a Canalis KSA16 trunking system.
The short-circuit level are respectively:
- 44 kA downstream of circuit breaker CB1 and at the upstream connection of the KSA63 trunking
- 33 kA at the junction between the KSA63 transmission trunking and the KSA63 trunking for high-density tap-offs.

What circuit breakers should be chosen for CB1 and CB2 to protect the installation against short-circuits?

	CB1	CB2
Prospective Isc	44 kA	33 kA
Circuit breakers	NSX630N (50 kA breaking capacity)	NSX160F (36 kA breaking capacity)
Isc protection level for KSA63 trunking	50 kA	
Isc protection level for KSA16 trunking		35 kA



Coordination tables between circuit breaker and Canalis electrical busbar trunking

Voltage: 220/240 V

Type of Canalis busbar trunking KDP20						
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**		
Type of circuit breaker	C60	C60N 10/16/20	C60H 10/16/20	C60L 10/16/20		
Isc max. in kA rms	iC60	iC60N 10/16/20	iC60H 10/16/20	iC60L 10/16/20		
	NG	NG125N 10/16/20				
Type of Canalis busbar trunking KBA25						
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	
Type of circuit breaker	C60	C60N 10/.../25	C60H 10/.../25	C60L 10/.../25	C60L 10/.../25	
Isc max. in kA rms	iC60	iC60N 10/.../25	iC60H 10/.../25	iC60L 10/.../25	iC60L 10/.../25	
	NG	NG125N 10/.../25				
Type of Canalis busbar trunking KBB25						
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	
Type of circuit breaker	C60	C60N 10/.../25	C60H 10/.../25	C60L 10/.../25	C60L 10/.../25	
Isc max. in kA rms	iC60	iC60N 10/.../25	iC60H 10/.../25	iC60L 10/.../25	iC60L 10/.../25	
	NG	NG125N 10/.../25				
Type of Canalis busbar trunking KBA40						
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**50 kA**
Type of circuit breaker	C60	C60N 10/.../40	C60H 10/.../40	C60L 40	C60L 10/.../25	
Isc max. in kA rms	iC60	iC60N 10/.../40	iC60H 10/.../40	iC60L 40	iC60L 10/.../25	
	NG	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	NG125L 10/.../40
Type of Canalis busbar trunking KBB40						
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**50 kA**
Type of circuit breaker	C60	C60N 10/.../40	C60H 10/.../40	C60L 40	C60L 10/.../25	
Isc max. in kA rms	iC60	iC60N 10/.../40	iC60H 10/.../40	iC60L 40	iC60L 10/.../25	
	NG	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	NG125L 10/.../40

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Voltage: 380/415 V

Type of Canalis busbar trunking KDP20							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**			
Type of circuit breaker	C60	C60N 10/16/20	C60H 10/16/20	C60L 10/16/20			
	iC60	iC60N 10/16/20	iC60H 10/16/20	iC60L 10/16/20			
	NG125	NG125N 10/16/20					
Type of Canalis busbar trunking KBA25							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**		
Type of circuit breaker	C60	**C60N 10/.../25**	**C60H 10/.../25**	**C60L 10/.../25**	**C60L 10/.../25**		
	iC60	**iC60N 10/.../25**	**iC60H 10/.../25**	**iC60L 10/.../25**	**iC60L 10/.../25**		
	NG125	NG125N 10/.../25					
Type of Canalis busbar trunking KBB25							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**		
Type of circuit breaker	C60	**C60N 10/.../25**	**C60H 10/.../25**	**C60L 10/.../25**	**C60L 10/.../25**		
	iC60	**iC60N 10/.../25**	**iC60H 10/.../25**	**iC60L 10/.../25**	**iC60L 10/.../25**		
	NG125	NG125N 10/.../25					
Type of Canalis busbar trunking KBA40							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**36 kA**	**50 kA**
Type of circuit breaker	C60	**C60N 10/.../40**	**C60H 10/.../40**	**C60L 40**	**C60L 10/.../25**		
	iC60	**iC60N 10/.../40**	**iC60H 10/.../40**	**iC60L 40**	**iC60L 10/.../25**		
	NG125	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	**NG125H 10/.../40**	**NG125L 10/.../40**
Type of Canalis busbar trunking KBB40							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**36 kA**	**50 kA**
Type of circuit breaker	C60	**C60N 10/.../40**	**C60H 10/.../40**	**C60L 40**	**C60L 10/.../25**		
	iC60	**iC60N 10/.../40**	**iC60H 10/.../40**	**iC60L 40**	**iC60L 10/.../25**		
	NG125	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	**NG125H 10/.../40**	**NG125L 10/.../40**

Type of Canalis busbar trunking KNA40							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**		
Type of circuit breaker	C60	**C60N 40**	**C60H 40**	**C60L 40**			
	iC60	**iC60N 40**	**iC60H 40**	**iC60L 40**			
	NG125	NG125N 10/…/40					
	Compact NSX				NSX100B/F/N/H/S/L 40 A		
Type of Canalis busbar trunking KNA63							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**36 kA**	**50 kA**
Type of circuit breaker	C60	**C60N 63**	**C60H 63**				
	iC60	**iC60N 63**	**iC60H 63**				
	C120	C120N	C120H				
	NG125				**NG125N 63**	**NG125H 63**	**NG125L 63**
	Compact NSX				**NSX100B/F/N/H/S/L**		
Type of Canalis busbar trunking KNA100							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**		
Type of circuit breaker	C120	C120N	C120H				
	NG125				NG125N 100		
	Compact NSX			**NSX100B/F/N/H/S/L** NSX160B/F/N/H/S/L	**NSX100B/F/N/H/S/L** NSX160B/F/N/H/S/L		
Type of Canalis busbar trunking KNA160							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**36 kA**	**50 kA**
Type of circuit breaker	NG125	NG125N 125	NG125N 125	NG125N 125	NG125N 125		
	Compact NSX				NSX100B/F/N/H/S/L **NSX160B/F/N/H/S/L** NSX250B/F/N/H/S/L	NSX100F/N/H/S/L **NSX160F/N/H/S/L** NSX250F/N/H/S/L	NSX100N/H/S/L **NSX160N/H/S/L** NSX250N/H/S/L

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Voltage: 380/415 V

Type of Canalis busbar trunking KSA100							
Isc max. in kA rms		**25 kA**	**36 kA**				
Type of circuit breaker	NG125	**NG125N 100**	**NG125H 100**				
	Compact NSX	**NSX100B/F/N/H/S/L**					
Type of Canalis busbar trunking KSA160							
Isc max. in kA rms		**25 kA**	**36 kA**	**50 kA**	**70 kA**	**90 kA**	
Type of circuit breaker	Compact NSX	NSX100B/F/N/H/S/L	NSX100F/N/H/S/L	NSX100N/H/S/L	NSX100H/S/L	NSX100S/L	
		NSX160B/F/N/H/S/L	**NSX160F/N/H/S/L**	**NSX160N/H/S/L**	**NSX160H/S/L**		
		NSX250B/F/N/H/S/L	NSX250F/N/H/S/L	NSX250N/H/S/L			
Type of Canalis busbar trunking KSA250							
Isc max. in kA rms		**25 kA**	**36 kA**	**50 kA**	**70 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NSX	NSX160B/F/N/H/S/L	NSX160F/N/H/S/L	NSX160N/H/S/L	NSX160H/S/L	NSX160S/L	NSX160L
		NSX250B/F/N/H/S/L	**NSX250F/N/H/S/L**	**NSX250N/H/S/L**	**NSX250H/S/L**	**NSX250S/L**	**NSX250L**
		NSX400F/N/H/S/L	NSX400F/N/H/S/L	NSX400N/H/S/L			
Type of Canalis busbar trunking KSA400							
Isc max. in kA rms		**25 kA**	**36 kA**	**50 kA**	**70 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NSX	NSX250B/F/N/H/S/L	NSX250F/N/H/S/L	NSX250N/H/S/L	NSX250H/S/L	NSX250S/L	NSX250L
		NSX400F/N/H/S/L	**NSX400F/N/H/S/L**	**NSX400N/H/S/L**	**NSX400H/S/L**	**NSX400S/L**	**NSX400L**
		NSX630F/N/H/S/L	NSX630F/N/H/S/L	NSX630N/H/S/L	NSX630H/S/L	NSX630S/L	NSX630L
	Compact NS	NS630bN/H/L/LB	NS630bL/LB	NS630bL/LB	NS630bLB		
Type of Canalis busbar trunking KSA500							
Isc max. in kA rms		**25 kA**	**36 kA**	**50 kA**	**70 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NSX	NSX400F	NSX400F	NSX400N	NSX400H	NSX400S	NSX400L
		NSX630F	**NSX630F**	**NSX630N**	**NSX630H**	**NSX630S**	**NSX630L**
	Compact NS	NS630bN	NS630bN/L/LB	NS630bL/LB	NS630bLB	NS630bLB	
Type of Canalis busbar trunking KSA630							
Isc max. in kA rms		**≤ 32 kA**	**36 kA**	**50 kA**	**70 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NSX	NSX400F	NSX400F	NSX400N	NSX400H	NSX400S	NSX400L
		NSX630F	**NSX630F**	**NSX630N**	**NSX630H**	**NSX630S**	**NSX630L**
	Compact NS	NS630bN	NS630bL	NS630bL	NS630bL	NS630bL	NS630bLB
		NS800N	NS800L	NS800L	NS800L	NS800L	NS800LB
	Masterpact MTZ1	MTZ1 06H1	MTZ1 06L1	MTZ1 06L1	MTZ1 06L1	MTZ1 06L1	
		MTZ1 08H1	MTZ1 08L1	MTZ1 08L1	MTZ1 08L1	MTZ1 08L1	
Type of Canalis busbar trunking KSA800							
Isc max. in kA rms			**36 kA**	**50 kA**	**70 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NSX		NSX630F	NSX630N	NSX630H	NSX630S	NSX630L
	Compact NS		NS630bN	NS630bL	NS630bL	NS630bL	NS630bL
			NS800N	**NS800L**	**NS800L**	**NS800L**	**NS800L**
			NS1000N	NS1000L	NS1000L	NS1000L	NS1000L
	Masterpact MTZ1		MTZ1 06H1	MTZ1 06L1	MTZ1 06L1	MTZ1 06L1	MTZ1 06L1
			MTZ1 **08H1**	MTZ1 **08L1**	MTZ1 **08L1**	MTZ1 **08L1**	MTZ1 **08L1**
			MTZ1 10H1	MTZ1 10L1	MTZ1 10L1	MTZ1 10L1	MTZ1 10L1
Type of Canalis busbar trunking KSA1000							
Isc max. in kA rms			**36 kA**	**50 kA**	**70 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS		NS800N	NS800L	NS800L	NS800L	NS800L
			NS1000N	**NS1000L**	**NS1000L**	**NS1000L**	**NS1000L**
			NS1250N				
	Masterpact MTZ1		MTZ1 08H1	MTZ1 08L1	MTZ1 08L1	MTZ1 08L1	MTZ1 08L1
			MTZ1 **10H1**	MTZ1 **10L1**	MTZ1 **10L1**	MTZ1 **10L1**	MTZ1 **10L1**
			MTZ1 12H1				

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Voltage: 380/415 V

Type of Canalis busbar trunking KTA0800							
Isc max. in kA rms		**≤ 30 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NSX	NSX630F (≥ 36 kA)	NSX630N/H/S/L	NSX630H/S/L	NSX630S/L	NSX630S/L	NSX630L
	Compact NSX	NS630bN **NS800N** NS1000N			NS630bL **NS800L** NS1000L		NS630bLB **NS800LB**
	Masterpact MTZ1	MTZ1 06 H1 **MTZ1 08 H1** **MTZ1**10 H1			MTZ1 06 L1 **MTZ1 08 L1** MTZ1 10 L1		
	Masterpact MTZ2	**MTZ2 08H1** MTZ2 10H1					
Type of Canalis busbar trunking KTA0800 reinforced short-circuit level							
Isc max. in kA rms		**≤ 30 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NSX	NSX630F (≥ 36 kA)	NSX630N/H/S/L	NSX630H/S/L	NSX630S/L	NSX630S/L	NSX630L
	Compact NSX	NS630bN **NS800N** NS1000N				NS630bL **NS800L** NS1000L	NS630bLB **NS800LB**
	Masterpact MTZ1	MTZ1 06 H1 MTZ1 **H1** MTZ1 H1				MTZ1 06 L1 **MTZ1 08 L1** MTZ1 10 L1	
	Masterpact MTZ2	**MTZ2 08H1** MTZ210H1					
Type of Canalis busbar trunking KTA1000 / KTC1000							
Isc max. in kA rms		**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS		NS800N **NS1000N** NS1250N				NS800L **NS1000L**
	Masterpact MTZ1	MTZ1 08H1 **MTZ1 10H1** MTZ1 12H1	MTZ1 08H2/H3 **MTZ1 10H2/H3** MTZ1 12H2/H3				MTZ1 08L1 **MTZ1 10L1**
	Masterpact MTZ2	MTZ2 08N1 **MTZ2 10N1** MTZ2 12N1	MTZ2 08H1 **MTZ2 10H1** MTZ2 12H1				
Type of Canalis busbar trunking KTC1000 / KTC1000 reinforced short-circuit level							
Isc max. in kA rms		**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS		NS800N **NS1000N**	NS800H **NS1000H** NS1250H			NS800L **NS1000L**
	Masterpact MTZ1	MTZ1 08H1 **MTZ1 10H1** MTZ1 12H1	MTZ1 08H2/H3 **MTZ1 10H2/H3** MTZ1 12H2/H3				MTZ1 08L1 **MTZ1 10L1**
	Masterpact MTZ2	MTZ2 08N1 MTZ2 **10N1** MTZ2 12N1		MTZ2 08H1 MTZ2 **10H1** MTZ2 12H1	MTZ2 08L1 MTZ2 **10L1** MTZ2 12L1		
Type of Canalis busbar trunking KTA1250 / KTC1350							
Isc max. in kA rms		**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS		NS1000N **NS1250N** **NS1600N**				NS1000L
	Masterpact MTZ1	MTZ1 10H1 **MTZ1 12H1** **MTZ1 16H1**	MTZ1 10H2/H3 **MTZ1 12H2/H3** **MTZ1 16H2/H3**				MTZ1 10L1
	Masterpact MTZ2	MTZ2 10N1 **MTZ2 12N1** **MTZ2 16N1**	MTZ2 10H1 **MTZ2 12H1** **MTZ2 16H1**				
Type of Canalis busbar trunking KTA1250 / KTC1350 reinforced short-circuit level							
Isc max. in kA rms		**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS		NS1000N **NS1250N** **NS1600N**	NS1000H **NS1250H** **NS1600H**			NS1000L
	Masterpact MTZ1	MTZ1 10H1 **MTZ1 12H1** **MTZ1 16H1**	MTZ1 10H2/H3 **MTZ1 12H2/H3** **MTZ1 16H2/H3**				MTZ1 10L1
	Masterpact MTZ2	MTZ2 10N1 **MTZ2 12N1** **MTZ2 16N1**		MTZ2 10H1 **MTZ2 12H1** **MTZ2 16H1**	MTZ2 10L1 **MTZ2 12L1** **MTZ2 16L1**		
Type of Canalis busbar trunking KTA1600 / KTC1600							
Isc max. in kA rms		**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS		NS1250N **NS1600N**	NS1250H **NS1600H** **NS1600bN** NS2000N			
	Masterpact MTZ1	MTZ1 12H1 **MTZ1 16H1**	MTZ1 12H2/H3 **MTZ1 16H2/H3**				
	Masterpact MTZ2	MTZ2 12N1 **MTZ2 16N1** MTZ2 20H1		MTZ2 12H1 **MTZ2 16H1** MTZ2 20H1	MTZ2 12L1 **MTZ2 16L1** MTZ2 20L1		

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Voltage: 380/415 V

Type of Canalis busbar trunking KTA1600 / KTC1600 reinforced short-circuit level							
Isc max. in kA rms		**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS		NS1250N	NS1250H NS1600H **NS1600bN** NS2000N	 **NS1600bH** NS2000H		
	Masterpact MTZ1	MTZ1 12H1 **MTZ1 16H1**	MTZ1 12H2/H3 **MTZ1 16H2/H3**				
	Masterpact MTZ2	MTZ2 12N1 **MTZ2 16N1**		MTZ2 12H1 **MTZ2 16H1** MTZ2 20H1	MTZ2 12H2 **MTZ2 16H2** MTZ2 20H2		MTZ2 12L1 **MTZ2 16L1** MTZ2 20L1
Type of Canalis busbar trunking KTA2000 / KTC2000							
Isc max. in kA rms		**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS			NS1600bN **NS2000N**			
	Masterpact MTZ1	MTZ1 16H1	MTZ1 16H2/H3				
	Masterpact MTZ2	MTZ2 16N1 **MTZ2 20H1** MTZ2 25H1		MTZ2 16H1 **MTZ2 20H1** MTZ2 25H1		MTZ2 16 L1 **MTZ2 20L1**	
Type of Canalis busbar trunking KTA2000 / KTC2000 reinforced short-circuit level							
Isc max. in kA rms		**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS			NS1600bN **NS2000N**	NS1600bH **NS2000H**		
	Masterpact MTZ1	MTZ1 16H1	MTZ1 16H2/H3				
	Masterpact MTZ2	MTZ2 16N1 **MTZ2 20H1** MTZ2 25H1		MTZ2 16H1 **MTZ2 20H1** MTZ2 25H1		MTZ2 16H2 **MTZ2 20H2** MTZ2 25H2	MTZ2 16L1 **MTZ2 20L1**
Type of Canalis busbar trunking KTA2500 / KTC2500							
Isc max. in kA rms				**65 kA**	**80 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Masterpact MTZ2			MTZ2 20H1 **MTZ2 25H1** MTZ2 32H1	MTZ2 20H2 **MTZ2 25H2** MTZ2 32H2	MTZ2 20L1	MTZ2 20L1
Type of Canalis busbar trunking KTA2500 / KTC2500 reinforced short-circuit level							
Isc max. in kA rms				**65 kA**	**80 kA**	**100 kA**	**110 kA**
Type of circuit breaker	Masterpact MTZ2			MTZ2 20H1 **MTZ2 25H1** MTZ2 32H1		MTZ2 20H2 **MTZ2 25H2** MTZ2 32H2	MTZ2 20L1 (150 kA) **MTZ2 25H3** MTZ2 32H3
Type of Canalis busbar trunking KTA3200 / KTC3200							
Isc max. in kA rms				**65 kA**	**85 kA**	**100 kA**	**110 kA**
Type of circuit breaker	Masterpact MTZ2 / MTZ3			MTZ2 25H1 **MTZ2 32H1** MTZ2 40H1	MTZ2 25H2 **MTZ2 32H2** MTZ2 40H2 MTZ3 40H1		
Type of Canalis busbar trunking KTA3200 / KTC3200 reinforced short-circuit level							
Isc max. in kA rms				**65 kA**		**100 kA**	**110 kA**
Type of circuit breaker	Masterpact MTZ2 / MTZ3			MTZ2 25H1 **MTZ2 32H1** MTZ2 40H1		MTZ2 25H2 **MTZ2 32H2** MTZ2 40H2 MTZ3 40H1	 **MTZ2 32H3** MTZ2 40H3 MTZ3 40H2
Type of Canalis busbar trunking KTA4000 / KTC4000							
Isc max. in kA rms				**65 kA**	**90 kA**	**100 kA**	**110 kA**
Type of circuit breaker	Masterpact MTZ2 / MTZ3			MTZ2 32H1 **MTZ2 40H1** MTZ3 40H1 MTZ3 50H1	MTZ2 32H2 **MTZ2 40H2** MTZ3 40H1 MTZ3 50H1		
Type of Canalis busbar trunking KTA4000 / KTC4000 reinforced short-circuit level							
Isc max. in kA rms				**65 kA**		**100 kA**	**120 kA**
Type of circuit breaker	Masterpact MTZ2 / MTZ3			MTZ2 32H1 **MTZ2 40H1** MTZ3 40H1 MTZ3 50H1		MTZ2 32H2 **MTZ2 40H2** MTZ3 40H1 MTZ3 50H1	MTZ2 32H3 **MTZ2 40H3** MTZ3 40H2 MTZ3 50H2
Type of Canalis busbar trunking KTC5000							
Isc max. in kA rms				**65 kA**		**95 kA**	
Type of circuit breaker	Masterpact MTZ2 / MTZ3			MTZ2 40H1		MTZ2 40H2 MTZ3 40H1 **MTZ3 50H1** MTZ3 63H1	
Type of Canalis busbar trunking KTC5000 reinforced short-circuit level							
Isc max. in kA rms				**65 kA**		**95 kA**	**120 kA**
Type of circuit breaker	Masterpact MTZ2 / MTZ3			MTZ2 40H1 MTZ3 40H1 **MTZ3 50H1** MTZ3 63H1		MTZ2 40H2 MTZ3 40H1 **MTZ3 50H1** MTZ3 63H1	MTZ2 40H3 MTZ3 40H2 **MTZ3 50H2** MTZ3 63H2

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Voltage: 660/690 V

Type of Canalis busbar trunking KSA100							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**			
Type of circuit breaker	Compact NSX	**NSX100N/H/S/L** NSX160N/H/S/L NSX250N/H/S/L	**NSX100S/L** NSX160S/L NSX250S/L	**NSX100L**			
	Compact NS						
Type of Canalis busbar trunking KSA160							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**45 kA**		
Type of circuit breaker	Compact NSX	NSX100N/H/S/L **NSX160N/H/S/L** NSX250N/H/S/L	NSX100S/L **NSX160S/L** NSX250S/L	NSX100L **NSX160L** NSX250L	NSX100R		
	Compact NS						
Type of Canalis busbar trunking KSA250							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**45kA**	**75 kA**	**100 kA**
Type of circuit breaker	Compact NSX	NSX160N/H/S/L **NSX250N/H/S/L** NSX400F/N/H/S/L	NSX160S/L **NSX250S/L** NSX400H/S/L	NSX160L **NSX250L** NSX400/S/L	**NSX250R**	**NSX250HB1**	**NSX250HB2**
	Compact NS						
Type of Canalis busbar trunking KSA400							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**45kA**	**75 kA**	**100 kA**
Type of circuit breaker	Compact NSX	NSX250N/H/S/L **NSX400F/N/H/S/L** NSX630F/N/H/S/L	NSX250S/L	NSX250L **NSX400H/S/L** NSX630H/S/L	**NSX400R** NSX630R	**NSX400HB1**	**NSX400HB2**
	Compact NS			NS630bN		NS630bLB	
Type of Canalis busbar trunking KSA500							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**45 kA**	**75 kA**	**100 kA**
Type of circuit breaker	Compact NSX	NSX400F/N/H/S/L **NSX630F/N/H/S/L**		NSX400H/S/L **NSX630H/S/L**	NSX400R **NSX630R**	NSX400HB1 **NSX630HB1**	NSX400HB2 NSX630HB2
	Compact NS			NS630bN NS800N		**NS630bLB** NS800LB	
Type of Canalis busbar trunking KSA630							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**45 kA**	**75 kA**	**100 kA**
Type of circuit breaker	Compact NSX	NSX400F/N/H/S/L **NSX630F/N/H/S/L**	NSX400H/S/L **NSX630H/S/L**	NSX400/S/L **NSX630/S/L**	NSX400R **NSX630R**	NSX400HB1 **NSX630HB1**	NSX400HB2 NSX630HB2
	Compact NS			NS630bN NS800N		NS630bLB NS800LB	
Type of Canalis busbar trunking KSA800							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**30 kA**	**35 kA**	**75 kA**
Type of circuit breaker	Compact NSX	**NSX630F/N/H/S/L**	**NSX630H/S/L**	**NSX630/S/L**	NSX630R	NSX630R	NSX630HB1
	Compact NS				**NS630bN** NS800N NS1000N	**NS630bH** NS800H NS1000H	**NS630bLB** NS800LB
Type of Canalis busbar trunking KSA1000							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**30 kA**	**35 kA**	**75 kA**
Type of circuit breaker	Compact NS				NS800N **NS1000N** NS1250N	NS800H **NS1000H** NS1250H	NS800LB
	Masterpact MTZ1					MTZ1 08H1/H2 MTZ1 10H1/H2 MTZ1 12H1/H2	
	Masterpact MTZ2					MTZ2 08N1 **MTZ2 10N1** MTZ2 12N1	

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Voltage: 660/690 V

Type of Canalis busbar trunking KTA1000 / KTC1000							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**75 kA**	**100 kA**
Type of circuit breaker	Compact NS	NS800N **NS1000N** NS1250N	NS800H **NS1000H** NS1250H			NS800LB	
	Masterpact MTZ1		MTZ1 08H1/H2 **MTZ1 10H1/H2** MTZ1 12H1/H2				
	Masterpact MTZ2		MTZ2 08N1 **MTZ2 10N1** MTZ2 12N1	MTZ2 08H1 **MTZ2 10H1** MTZ2 12H1			
Type of Canalis busbar trunking KTA1000 / KTC1000 reinforced short-circuit level							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**75 kA**	**100 kA**
Type of circuit breaker	Compact NS	NS800N **NS1000N** NS1250N	NS800H **NS1000H** NS1250H			NS800LB	
	Masterpact MTZ1		MTZ1 08H1/H2 MTZ1 10H1/H2 MTZ1 12H1/H2				
	Masterpact MTZ2		MTZ2 08N1 **MTZ2 10N1** MTZ2 12N1		MTZ2 08H1 **MTZ2 10H1** MTZ2 12H1		
Type of Canalis busbar trunking KTA1250 / KTC1350							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**75 kA**	**100 kA**
Type of circuit breaker	Compact NS	NS1000N NS1250N NS1600N	NS1000H NS1250H NS1600H	NS1600bN			
	Masterpact MTZ1		MTZ1 10H1/H2 MTZ1 12H1/H2 MTZ1 16H1/H2				
	Masterpact MTZ2		MTZ2 10N1 MTZ2 12N1 MTZ2 16N1	MTZ2 10H1 MTZ2 12H1 MTZ2 16H1			
Type of Canalis busbar trunking KTA1250 / KTC1350 reinforced short-circuit level							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**75 kA**	**100 kA**
Type of circuit breaker	Compact NS	NS1000N NS1250N NS1600N	NS1000H NS1250H NS1600H	NS1600bN	NS1600bN		
	Masterpact MTZ1		MTZ1 10H1/H2 MTZ1 12H1/H2 MTZ1 16H1/H2				
	Masterpact MTZ2		MTZ2 10N1 MTZ2 12N1 MTZ2 16N1	MTZ2 10H1 MTZ2 12H1 MTZ2 16H1	MTZ2 10H1 MTZ2 12H1 MTZ2 16H1	MTZ2 10L1 MTZ2 12L1 MTZ2 16L1	
Type of Canalis busbar trunking KTA1600 / KTC1600							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**75 kA**	**100 kA**
Type of circuit breaker	Compact NS	NS1250N NS1600N	NS1250H NS1600H		NS1600bN NS2000N		
	Masterpact MTZ1		MTZ1 12H1/H2 **MTZ1 16H1/H2**				
	Masterpact MTZ2		MTZ2 12N1 **MTZ2 16N1**		MTZ2 12H1 **MTZ2 16H1** MTZ2 20H1	MTZ2 12L1 **MTZ2 16L1** MTZ2 20 L1	
Type of Canalis busbar trunking KTA1600 / KTC1600 reinforced short-circuit level							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**75 kA**	**100 kA**
Type of circuit breaker	Compact NS	NS1250N NS1600N	NS1250H NS1600H		NS1600bN NS2000N		
	Masterpact MTZ1		MTZ1 12H1/H2 **MTZ1 16H1/H2**				
	Masterpact MTZ2		MTZ2 12N1 **MTZ2 16N1**		MTZ2 12H1 **MTZ2 16H1** MTZ2 20H1	MTZ2 12H2 **MTZ2 16H2** MTZ2 20H2	MTZ2 12L1 **MTZ2 16L1** MTZ2 20L1

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Voltage: 660/690 V

Type of Canalis busbar trunking KTA2000 / KTC2000							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**75 kA**	**100 kA**
Type of circuit breaker	Compact NS	NS1600N	NS1600H		NS1600bN NS2000N NS2500N		
	Masterpact MTZ1		MTZ1 16H1/H2				
	Masterpact MTZ2		MTZ2 16N1		MTZ2 16H1 **MTZ2 20H1** MTZ2 25H1		MTZ2 16L1 **MTZ2 20L1**
Type of Canalis busbar trunking KTA2000 / KTC2000 reinforced short-circuit level							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**
Type of circuit breaker	Compact NS	NS1600N	NS1600H		NS1600bN NS2000N NS2500N		
	Masterpact MTZ1		MTZ1 16H1/H2				
	Masterpact MTZ2		MTZ2 16N1		MTZ2 16H1 **MTZ2 20H1** MTZ2 25H1	MTZ2 16H2 **MTZ2 20H2** MTZ2 25H2	MTZ2 16L1 **MTZ2 20H3** MTZ2 25H3
Type of Canalis busbar trunking KTA2500 / KTC2500							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**
Type of circuit breaker	Compact NS				NS2000N NS2500N NS3200N		
	Masterpact MTZ1		MTZ1 16H1/H2				
	Masterpact MTZ2				MTZ2 20H1 **MTZ2 25H1** MTZ2 32H1	MTZ2 20H2 **MTZ2 25H2** MTZ2 32H2	MTZ2 20L1
Type of Canalis busbar trunking KTA2500 / KTC2500 reinforced short-circuit level							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**80 kA**	**100 kA**
Type of circuit breaker	Compact NS				NS2000N NS2500N NS3200N		
	Masterpact MTZ1		MTZ1 16H1/H2				
	Masterpact MTZ2				MTZ2 20H1 **MTZ2 25H1** MTZ2 32H1	MTZ2 20H2 **MTZ2 25H2** MTZ2 32H2	MTZ2 20H3 **MTZ2 25H3** MTZ2 32H3
Type of Canalis busbar trunking KTA3200 / KTC3200							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**
Type of circuit breaker	Compact NS				NS2500N NS3200N		
	Masterpact MTZ2 / MTZ3				MTZ2 25H1 **MTZ2 32H1** MTZ2 40H1	MTZ2 25H2 **MTZ2 32H2** MTZ2 40H2 MTZ3 40H1/H2	
Type of Canalis busbar trunking KTA3200 / KTC3200 reinforced short-circuit level							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**
Type of circuit breaker	Compact NS				NS2500N NS3200N		
	Masterpact MTZ2 / MTZ3				MTZ2 25H1 **MTZ2 32H1** MTZ2 40H1	MTZ2 25H2 **MTZ2 32H2** MTZ2 40H2	MTZ2 25H3 **MTZ2 32H3** MTZ2 40H3 MTZ3 40H1/2
Type of Canalis busbar trunking KTA4000 / KTC4000							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**
Type of circuit breaker	Compact NS				NS3200N		
	Masterpact MTZ2 / MTZ3				MTZ2 32H1 **MTZ2 40H1**	MTZ2 32H2 **MTZ2 40H2** **MTZ3 40H1/H2** MTZ2 50H1/H2	
Type of Canalis busbar trunking KTA4000 / KTC4000 reinforced short-circuit level							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**
Type of circuit breaker	Compact NS				NS3200N		
	Masterpact MTZ2 / MTZ3				MTZ2 32H1 **MTZ2 40H1**	MTZ2 32H2 **MTZ2 40H2**	MTZ2 32H3 **MTZ2 40H3** **MTZ3 40H1/H2** MTZ3 50H1/H2
Type of Canalis busbar trunking KTC5000							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**95 kA**
Type of circuit breaker	Masterpact MTZ2 / MTZ3				MTZ2 40H1	MTZ2 40H2	MTZ2 40H3 MTZ3 40H1/H2 **MTZ3 50H1/H2** MTZ3 63H1/H2
Type of Canalis busbar trunking KTC5000 reinforced short-circuit level							
Isc max. in kA rms		**30 kA**	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**
Type of circuit breaker	Masterpact MTZ2 / MTZ3				MTZ2 40H1	MTZ2 40H2	MTZ2 40H3 MTZ3 40H1/H2 **MTZ3 50H1/H2** MTZ3 63H1/H2

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