

Product datasheet

Specifications



energy sensor, PowerTag Rope
600A 3P/3P+N top and bottom
position

A9MEM1591

EAN Code: 3606481595294

Price: 759,75 EUR

Main

Range of product	PowerLogic
Product name	PowerTag R600
Product or component type	Energy sensor
Poles	3P 3P + N
Maximum current [Imax]	600 A
[Ib] Basic current	100 A
Starting current	400 mA
Saturation current	1200 A
Product specific application	Energy management Overload alarm Power factor Load monitoring Circuit monitoring
Concentrator compatibility	EcoStruxure Panel Server Entry EcoStruxure Panel Server Universal EcoStruxure Panel Server Advanced PowerLogic T300 Harmony Hub Acti9 PowerTag Link Acti9 PowerTag Link HD
Range compatibility	Masterpact MasterPact MTZ for switch disconnecter Masterpact MasterPact NW Masterpact MasterPact NT Compact NS Compact NS100 Compact NS Compact NS250 Compact NS Compact NS400 Acti9 TeSys
Type of measurement	Active and reactive energy Apparent energy Active and reactive power Apparent power Current Voltage Power factor Internal temperature Frequency
Accuracy class	Class 1 active energy conforming to IEC 61557-12 Class 2 reactive energy conforming to IEC 61557-12 Class 2 apparent energy conforming to IEC 61557-12 Class 1 active power conforming to IEC 61557-12 Class 2 reactive power conforming to IEC 61557-12 Class 2 apparent power conforming to IEC 61557-12 Class 1 current conforming to IEC 61557-12 Class 0.5 voltage conforming to IEC 61557-12 Class 1 power factor conforming to IEC 61557-12 Class 0.5 frequency conforming to IEC 61557-12

Rates duty January 2016

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Metering type	Active energy E -a- IN/OUT 0...281 x 10exp(9) kWh at total per phase Active energy E -a- IN/OUT 0...281 x 10exp(9) kWh at partial per phase Active energy E -a- IN/OUT 0...281 x 10exp(9) kWh at 3-phase total Active energy E -a- IN/OUT 0...281 x 10exp(9) kWh at 3-phase partial Reactive energy E -rA- IN/OUT 0...281 x 10exp(9) kVARh at total per phase Reactive energy E -rA- IN/OUT 0...281 x 10exp(9) kVARh at partial per phase Reactive energy E -rA- IN/OUT 0...281 x 10exp(9) kVARh at 3-phase total Reactive energy E -rA- IN/OUT 0...281 x 10exp(9) kVARh at 3-phase partial Apparent energy E -apA- 0...281 x 10exp(9) kVAh at total per phase Apparent energy E -apA- 0...281 x 10exp(9) kVAh at partial per phase Apparent energy E -apA- 0...281 x 10exp(9) kVAh at 3-phase total Apparent energy E -apA- 0...281 x 10exp(9) kVAh at 3-phase partial Active power P, P1, P2, P3 Reactive power Q, Q1, Q2, Q3 Apparent power S, S1, S2, S3 Current I1, I2, I3 Calculated neutral current Voltage U12, U23, U31 Voltage V1N, V2N, V3N Frequency 45...65 Hz Power factor at per phase Power factor at total
Mounting location	Top or bottom
Mounting support	Busbar Cables
Product destination	Switchboard
Event management	Voltage loss with measured current at voltage loss
Transmission support medium	Radio frequency 2.4...2.4835 GHz conforming to IEEE 802.15.4
Emission power	10 mW

Complementary

Form factor	Rope
Mounting mode	Clip-on (DIN rail)
Electrical connection (voltage sensing & power supply)	Removable spring terminal block
Cable cross section	1 rigid cable 0.2...1.5 mm² without cable end 1 stranded cable 0.2...2.5 mm² without cable end 1 stranded cable 0.25...1.5 mm² with cable end
Wire stripping length	11 mm
Cable length	1 m for sensor
current sensor diameter	Closed: 100 mm
supply voltage	100...277 V AC, +/- 20 %, phase to neutral 173...480 V AC, +/- 20 %, phase to phase
Network frequency	50 Hz 60 Hz
Maximum power consumption	3 VA
Standards	IEC 61557-12 IEC 61010-1 ETSI EN 301 489-1 IEC 61010-2-030 IEC 61326-1 ETSI EN 300 328
Product certifications	UL listed IEC DNV Marine
Number of 9mm pitches on Din rail	2
Height	Base unit: 105 mm
Width	Base unit: 18 mm

Depth	Base unit: 67.5 mm
Colour	White (RAL 9003)

Environment

Maximum conductor temperature	105 °C
Quality labels	CE
Directives	2014/53/EU - radio equipment directive
Operating altitude	0...2000 m
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Overvoltage category	IV conforming to IEC 61010-1
Measurement category	Category IV conforming to IEC 61010-2-030
IP degree of protection	IP20 conforming to IEC 60529
IK degree of protection	IK05
Pollution degree	3
Relative humidity	0...95 % at 55 °C conforming to IEC 60721-3-3
Vibration resistance	3M4 conforming to IEC 60721-3-3
Electromagnetic compatibility	Industrial electromagnetic environment conforming to IEC 61326-1 Radiated EMC conforming to ETSI EN 301 489-17 Electromagnetic emission conforming to IEC 62311
environmental characteristics	Indoor use

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.200 cm
Package 1 Width	17.500 cm
Package 1 Length	20.000 cm
Package 1 Weight	559.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	7
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.424 kg

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	27 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	7 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	18 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	827c1a3e-25dd-4dd7-afe1-72d23f3f1f38
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	57
End of life manual availability	End of Life Information
Take-back	Yes
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins