



GACIA

GACIA ELECTRICAL APPLIANCE CO.,LTD.

Add:545#Dongdajie,Beibaixiang,Baitawang Industrial Zone,

Wenzhou Zhejiang,China

Tel:86-577-62982555 Fax:86-577-62983555

E-mail:gacia@gacia.com.cn Http://www.gacia.com.cn



GACIA

www.gacia.com.cn



HC SERIES AC Household Contactor

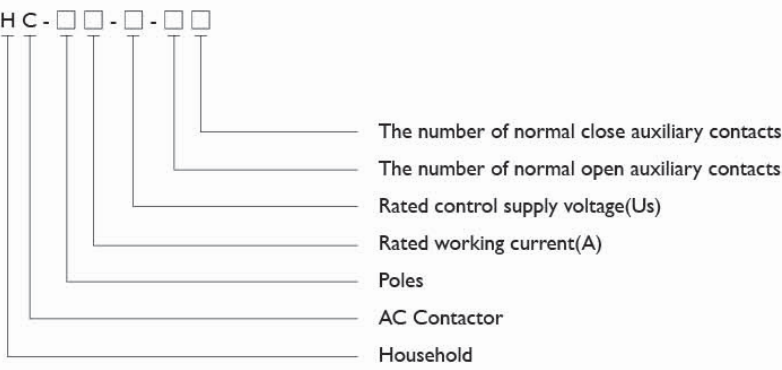




General

- HC series AC household contactor(hereinafter contactor) is suitable for using in the circuits up to the rated working voltage 400V AC 50Hz(or 60Hz),rated working current up to 63A, to control household electric appliances and low inductive reactance load and micro inductive reactance load of similar usage, can also bounded to control household motor load of which the controlling power needs to be relatively decreased.
- This products applies to places such as household, hotels, apartments, etc to realize the automation of large-scale produced household electric appliances.
- In compliance with IEC61095,GB17885.

Model and Definition



Normal Operating Conditions and Installation Condition

- The ambient air temperature:-5~+40℃ ,Average not more than +35℃ within 24 hours.
- Altitude(m):Not exceed 2000 meters
- Atmospheric conditions:When the highest temperature is +40℃ , the air relative humidity should not be higher than 50%.The higher relative humidity should be allowed at the lower temperature, for instance, 90% humidity when 20℃ . Special measures should be taken when condensate dew happens occasionally due to temperature changes.
- Pollution degree: Class 2
- Installation category: II
- Mounting: On Din rail TH35-7.5 mounting rail installation
- Protection degree:IP20



General

- Rated current: 25A,40A,63A
- Standart: IEC/EN61095
- HC-225/HC-240/HC-263: Ue=230V~
- Ui: 500V
- Utilization category: AC-1,AC-7a,AC-7b
- Electrical life 100000,Mechanical life 1000000
- HC-425/HC-440/HC-463: Ue=400V~

HC Home Contactor Technica Data			
	utilization category	Ie	Controlled power
HC-225/HC-425	AC-1,AC-7a	25A	5kw/14kw
	AC-7b	9A	1.2kw/4kw
HC-240/HC-440	AC-1,AC-7a	40A	7.6kw/26.5kw
	AC-7b	15A	2.5kw/6kw
HC-263/HC-463	AC-7a	63A	12kw/40kw
	AC-7b	32A	4kw/14kw



HC Home Contactor Order Code			
     	25A	2P	4P
	24V	HC-225-24-10	HC-425-24-30
		HC-225-24-20	HC-425-24-40
		HC-225-24-11	HC-425-24-31
		HC-225-24-02	HC-425-24-22
	48V		HC-425-24-04
		HC-225-48-10	HC-425-48-30
		HC-225-48-20	HC-425-48-40
		HC-225-48-11	HC-425-48-31
		HC-225-48-02	HC-425-48-22
			HC-425-48-04
	230V	HC-225-230-10	HC-425-230-30
		HC-225-230-20	HC-425-230-40
		HC-225-230-11	HC-425-230-31
		HC225-230-02	HC-425-230-22
	40A	2P	4P
	24V	HC-240-24-10	HC-440-24-30
		HC-240-24-20	HC-440-24-40
		HC-240-24-11	HC-440-24-31
		HC-240-24-02	HC-440-24-22
	48V		HC-440-24-04
		HC240-48-10	HC-440-48-30
		HC240-48-20	HC-440-48-40
		HC240-48-11	HC-440-48-31
		HC240-48-02	HC-440-48-22
			HC-440-48-04
	230V	HC-240-230-10	HC-440-230-30
		HC-240-230-20	HC-440-230-40
		HC-240-230-11	HC-440-230-31
		HC-240-230-02	HC-440-230-22
	63A	2P	4P
	24V	HC-263-24-20	HC-463-24-30
		HC-263-24-11	HC-463-24-40
		HC-263-24-02	HC-463-24-31
			HC-463-24-22
	48V		HC-463-24-04
		HC-263-48-20	HC-463-48-30
		HC-263-48-11	HC-463-48-40
		HC-263-48-02	HC-463-48-34
			HC-463-48-22
			HC-463-48-04
	230V	HC-263-230-20	HC-463-230-30
		HC-263-230-11	HC-463-230-40
		HC-263-230-02	HC-463-230-31
			HC-463-230-22
			HC-463-230-04



Main Technical Data and Technical Performance

- Pole: 2P、 4P
- Model and technical data

Type	Utilization category	Rated insulation voltage (Ui)	Rated working voltage(Ue)	Rated working current(Ie)	Controlled power	Rated control supply voltage(Us)
		V AC 50Hz	V AC 50Hz	V AC 50Hz	(kW)	V AC 50/60Hz
HC-125-10	AC-1,AC-7a	500	230	25	5	24、 48、 230/240
	AC-7b			9	1.2	
HC-225-20	AC-1,AC-7a	500	230	25	5	
	AC-7b			9	1.2	
HC-225-11	AC-1,AC-7a	500	230	25	5	
	AC-7b			9	1.2	
HC-225-02	AC-1,AC-7a	500	230	25	5	
	AC-7b			9	1.2	
HC-240-20	AC-1,AC-7a	500	230	40	7.6	
	AC-7b			15	2.5	
HC-240-11	AC-1,AC-7a	500	230	40	7.6	
	AC-7b			15	2.5	
HC-240-02	AC-1,AC-7a	500	230	40	7.6	
	AC-7b			15	2.5	
HC-263-20	AC-1,AC-7a	500	230	63	12	
	AC-7b			32	4	
HC-263-11	AC-1,AC-7a	500	230	63	12	
	AC-7b			32	4	
HC-263-02	AC-1,AC-7a	500	230	63	12	
	AC-7b			32	4	
HC-425-40	AC-1,AC-7a	500	400	25	14	
	AC-7b			9	4	
HC-425-31	AC-1,AC-7a	500	400	25	14	
	AC-7b			9	4	
HC-425-22	AC-1,AC-7a	500	230	25	5	
	AC-7b			9	1.2	
HC-425-04	AC-1,AC-7a	500	400	25	14	
	AC-7b			9	4	
HC-440-40	AC-1,AC-7a	500	400	40	26.5	
	AC-7b			15	6.5	
HC-440-31	AC-1,AC-7a	500	400	40	26.5	
	AC-7b			15	6.5	
HC-440-22	AC-1,AC-7a	500	230	40	7.6	
	AC-7b			15	2.5	
HC-440-04	AC-1,AC-7a	500	400	40	26.5	
	AC-7b			15	6.5	
HC-463-40	AC-1,AC-7a	500	400	63	40	
	AC-7b			32	14	
HC-463-31	AC-1,AC-7a	500	400	63	40	
	AC-7b			32	14	
HC-463-22	AC-1,AC-7a	500	230	63	12	
	AC-7b			32	4	
HC-463-04	AC-1,AC-7a	500	400	63	40	
	AC-7b			32	14	



- Operation Range
Contactor shall pull in reliably at any value between 85% Us and 110%Us. 110%Us is the maximum value and 85%Us is the minimum value.
Contactor shall release and break completely between 75% Us and 20%Us. 20%Us is the maximum value and 75% Us is the minimum value.

■ Appointed operation performance

making and breaking condition						
Utilization category	I_c/I_e	U_r/U_e	$\cos \Phi$	making time (a) s	interval time s	operation cycle times
AC-7a	1.0	1.05	0.80	0.05	10	30 000
AC-7b	(c)	(b)	0.45	0.05	10	30 000
(a) If contact has closed completely before breaking again, the making time is allowed less than 0.05s. (b) For making operation $U_r/U_e=1.0$, for breaking operation $U_r/U_e=0.17$. (c) For making operation $I_c/I_e=6.0$, for breaking operation $I_c/I_e=1.0$.						

■ Making and breaking capacity

making and breaking condition						
Utilization category	I_c/I_e	U_r/U_e	$\cos \Phi$	making time s	interval time s	operation cycle times
AC-7a	1.5	1.05	0.80	0.05	10	50
AC-7b	8.0	1.05	0.45	0.05	10	50

- Mechanical life:
Mechanical life: 1 million times, operation cycles per hour are 300 times.
- Electrical life
Electrical life: 100000 times, maximum operation cycles per day are 100 times.

Product Characteristics

- Contactors are modular control appliances of novel structure, small volume. Its characteristic includes din-rail installation, modular size, beautiful design, and safety. It can apply inversion structure and be combined with mini circuit breaker in lighting box.
- It applies good insulation material, which improves the safety index.
- It has good appearance and low noise and is suitable for hotel and hospital, etc.



Dimensions

