



HUC5 SERIES

AC Household
Contactor



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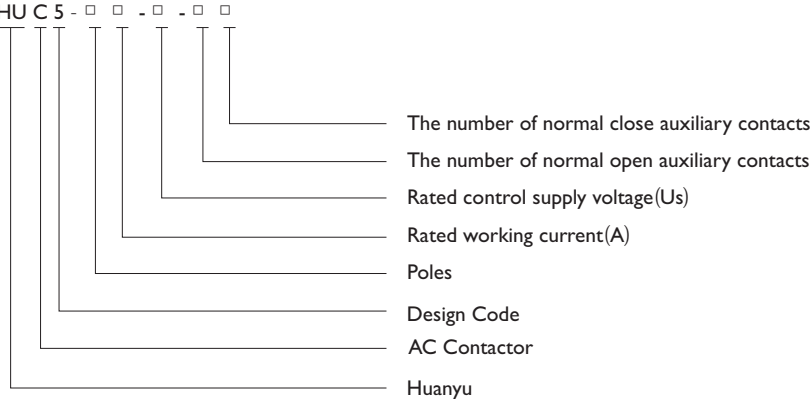


ELECTRICAL SAFETY
GUARD

General

- HUC5 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
- Standard: IEC/EN61095
- HUC5-225/HC-240/HUC5-263: Ue=230V~
- Ui: 500V
- Utilization category: AC-1,AC-7a,AC-7b
- Electrical life 100000,Mechanical life 1000000
- HUC5-425/HC-440/HUC5-463: Ue=400V~

HUC5 Home Contactor Technica Data			
	utilization category	Ie	Controlled power
HUC5-225/HUC5-425	AC-1,AC-7a	25A	5kw/14kw
	AC-7b	9A	1.2kw/4kw
HUC5-240/HUC5-440	AC-1,AC-7a	40A	7.6kw/26.5kw
	AC-7b	15A	2.5kw/6kw
HUC5-263/HUC5-463	AC-1,AC-7a	63A	12kw/40kw
	AC-7b	32A	4kw/14kw

HUC5 Home Contactor Order Code			
     	25A	2P	4P
	24V	HUC5-225-24-10	HUC5-425-24-30
		HUC5-225-24-20	HUC5-425-24-40
		HUC5-225-24-11	HUC5-425-24-31
		HUC5-225-24-02	HUC5-425-24-22
	48V		HUC5-425-24-04
		HUC5-225-48-10	HUC5-425-48-30
		HUC5-225-48-20	HUC5-425-48-40
		HUC5-225-48-11	HUC5-425-48-31
		HUC5-225-48-02	HUC5-425-48-22
	230V		HUC5-425-48-04
		HUC5-225-230-10	HUC5-425-230-30
		HUC5-225-230-20	HUC5-425-230-40
		HUC5-225-230-11	HUC5-425-230-31
		HUC5-225-230-02	HUC5-425-230-22
			HUC5-425-230-04
	40A	2P	4P
	24V	HUC5-240-24-10	HUC5-440-24-30
		HUC5-240-24-20	HUC5-440-24-40
		HUC5-240-24-11	HUC5-440-24-31
		HUC5-240-24-02	HUC5-440-24-22
	48V		HUC5-440-24-04
		HUC5-240-48-10	HUC5-440-48-30
		HUC5-240-48-20	HUC5-440-48-40
		HUC5-240-48-11	HUC5-440-48-31
		HUC5-240-48-02	HUC5-440-48-22
	230V		HUC5-440-48-04
		HUC5-240-230-10	HUC5-440-230-30
		HUC5-240-230-20	HUC5-440-230-40
		HUC5-240-230-11	HUC5-440-230-31
		HUC5-240-230-02	HUC5-440-230-22
			HUC5-440-230-04
	63A	2P	4P
	24V	HUC5-263-24-20	HUC5-463-24-30
		HUC5-263-24-11	HUC5-463-24-40
		HUC5-263-24-02	HUC5-463-24-31
			HUC5-463-24-22
	48V		HUC5-463-24-04
		HUC5-263-48-20	HUC5-463-48-30
		HUC5-263-48-11	HUC5-463-48-40
		HUC5-263-48-02	HUC5-463-48-34
	230V		HUC5-463-48-22
			HUC5-463-48-04
		HUC5-263-230-20	HUC5-463-230-30
		HUC5-263-230-11	HUC5-463-230-40
		HUC5-263-230-02	HUC5-463-230-31
			HUC5-463-230-22
			HUC5-463-230-04

Main Technical Data and Technical Performance

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

Type	Utilization category	Rated insulation voltage (Ui) V AC 50Hz	Rated working voltage (Ue) V AC 50Hz	Rated working current (Ie) V AC 50Hz	Controlled power (kW)	Rated control supply voltage (Us) V AC 50/60Hz
HUC5-125-10	AC-1,AC-7a	500	230	25	5	24、48、 230/240
	AC-7b			9	1.2	
HUC5-225-20	AC-1,AC-7a	500	230	25	5	
	AC-7b			9	1.2	
HUC5-225-11	AC-1,AC-7a	500	230	25	5	
	AC-7b			9	1.2	
HUC5-225-02	AC-1,AC-7a	500	230	25	5	
	AC-7b			9	1.2	
HUC5-240-20	AC-1,AC-7a	500	230	40	7.6	
	AC-7b			15	2.5	
HUC5-240-11	AC-1,AC-7a	500	230	40	7.6	
	AC-7b			15	2.5	
HUC5-240-02	AC-1,AC-7a	500	230	40	7.6	
	AC-7b			15	2.5	
HUC5-263-20	AC-1,AC-7a	500	230	63	12	
	AC-7b			32	4	
HUC5-263-11	AC-1,AC-7a	500	230	63	12	
	AC-7b			32	4	
HUC5-263-02	AC-1,AC-7a	500	230	63	12	
	AC-7b			32	4	
HUC5-425-40	AC-1,AC-7a	500	400	25	14	
	AC-7b			9	4	
HUC5-425-31	AC-1,AC-7a	500	400	25	14	
	AC-7b			9	4	
HUC5-425-22	AC-1,AC-7a	500	230	25	5	
	AC-7b			9	1.2	
HUC5-425-04	AC-1,AC-7a	500	400	25	14	
	AC-7b			9	4	
HUC5-440-40	AC-1,AC-7a	500	400	40	26.5	
	AC-7b			15	6.5	
HUC5-440-31	AC-1,AC-7a	500	400	40	26.5	
	AC-7b			15	6.5	
HUC5-440-22	AC-1,AC-7a	500	230	40	7.6	
	AC-7b			15	2.5	
HUC5-440-04	AC-1,AC-7a	500	400	40	26.5	
	AC-7b			15	6.5	
HUC5-463-40	AC-1,AC-7a	500	400	63	40	
	AC-7b			32	14	
HUC5-463-31	AC-1,AC-7a	500	400	63	40	
	AC-7b			32	14	
HUC5-463-22	AC-1,AC-7a	500	230	63	12	
	AC-7b			32	4	
HUC5-463-04	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_b	U_r/U_b	$\cos\Phi$	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 $U_r/U_b=1.0$, for breaking operation $U_r/U_b=0.17$. (c) For making operation $I_c/I_b=6.0$, for breaking operation $I_c/I_b=1.0$.					

- Making and breaking capacity**

	making and breaking condition					
Utilization category	I_c/I_b	U_r/U_b	$\cos\Phi$	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

