

## HC7 Modular Contactor

### Product application scope

Control contactor action, can be AC (50/60Hz) or DC voltage, voltage range can be selected;  
 The rated working voltage of the main circuit can be 250V(single-phase) or 400V(three-phase),  
 and the rated working current is 16A to 63A in the circuit;

### Product application scenario

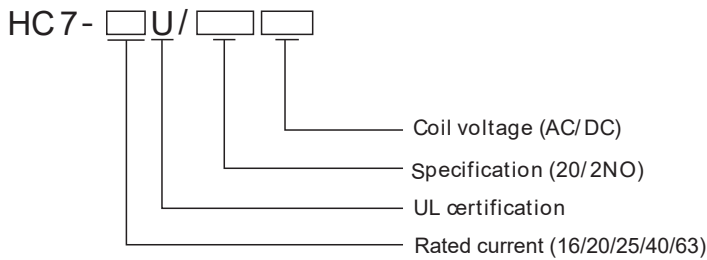
Low and micro inductive loads can be controlled for household appliances and similar applications;  
 It can also be used to control the load of household motors, and the control power should be reduced accordingly.  
 The products are used in homes, hotels, apartments and other places to achieve automation functions, and are used in large-scale household electrical products. The contactor complies with UL60947-1/UL60947-4-1 standard

UL60947-1

UL60947-4-1



### Modular Contactor



(Example: HC7- 16U/20 AC/DC230V, that is, 16A, 2 normally open, AC/DC230V coil voltage)



1/2P, 1modules

Product model	Rated current		Control Voltage (Vac/Vdc)	Wiring Diagram
	AC-1	AC-3		
HC7-16U/10	16A	6A	AC/DC 12V	
HC7-20U/10	20A	7A	AC/DC 24V	
HC7-25 U/10	25A	9A	AC/DC 110V	
HC7-16 U/20	16A	6A	AC/DC 120V	
HC7-20 U/20	20A	7A	AC/DC 230V	
HC7-25 U/20	25A	9A		

AC/DC 3/4P,2modules



Product model	Rated current		Control Voltage (Vac/Vdc)	Wiring Diagram
	AC-1	AC-3		
HC7-16U/30	16A	6A	AC/DC 12V	
HC7-20U/30	20A	7A	AC/DC 24V	
HC7-25U/30	25A	9A	AC/DC 110V	
HC7-16U/40	16A	6A	AC/DC 120V	
HC7-20U/40	20A	7A	AC/DC 230V	
HC7-25U/40	25A	9A		

AC/DC 1/2P,2modules



Product model	Rated current		Control Voltage (Vac/Vdc)	Wiring Diagram
	AC-1	AC-3		
HC7-40U/10	40A	18A	AC/DC 12V	
HC7-63U/10	63A	25A	AC/DC 24V	
HC7-40U/20	40A	18A	AC/DC 110V	
HC7-40U/40	40A	18A	AC/DC 120V	
HC7-63U/40	63A	25A	AC/DC 230V	

AC/DC 3/4P,3modules

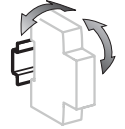
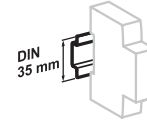


Product model	Rated current		Control Voltage (Vac/Vdc)	Wiring Diagram
	AC-1	AC-3		
HC7-40U/30	40A	18A	AC/DC 12V	
HC7-63U/30	63A	25A	AC/DC 24V	
HC7-40U/40	40A	18A	AC/DC 110V	
HC7-40U/40	40A	18A	AC/DC 120V	
HC7-63U/40	63A	25A	AC/DC 230V	

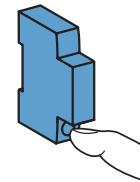
### Technical parameters and performance

Parameter list		
Rated Voltage(Ue)	1P,2P	250V AC
	3P,4P	500V AC
Frequency(AC)		50/60Hz
Mechanical Life(O-C)		10,00000
Electrical Life		50,000
Daily Operating Cycle(Max)		100
Rated Insulation Voltage(Ui)		250V(1/2P) / 500V(3P/4P) AC
Pollution Degree		2
Rated impulse withstand voltage(Uimp)		4kV(1/2P) 6kV(3/4P)
Class of protection (IEC 60529)	Contactor body	IP20
	IDistribution box	IP40
Operating temperature		-5°C~+60°C
Storage temperature		-40°C~+70°C

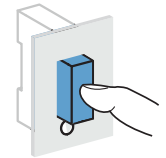
Installed on 35mm standard guide rails



±5° perpendicularity



IP20



IP40

Humidity and Heat Resistance(IEC 60068.1)

Class 2 (temperature 55°C, relative humidity 93%RH)

ELSV(Ultra Low Safety Voltage) is compatible with the 12/24VAC/DC version

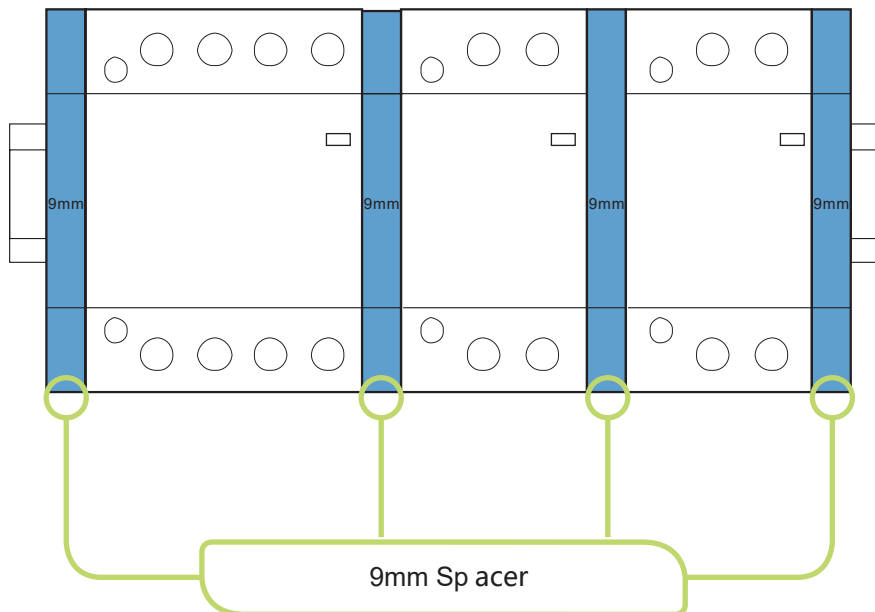
Product controls comply with SELV(Safe Ultra-Low Voltage) requirements

When contactors are installed close to each other or between contactors and circuit breakers, the following measures need to be taken to ensure heat dissipation and electrical safety:

(1)W  
circu





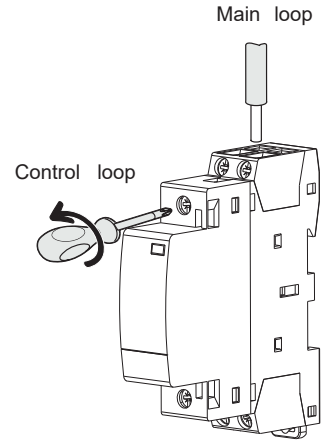
9mm Sp acer



Install spacers or reserve gaps: Install spacers or reserve gaps of at least 9mm to facilitate heat dissipation

## Wiring mode and parameters

Type	Rated current	Strip length	Circuit	Tor que	Copper wire	
					Hard line	Soft Wire / Lug Terminal
HC7	PZ1:4mm	9mm	Control loop	0.8N.m		
			Main loop		1.5~2.5mm <sup>2</sup> 2×1.5mm <sup>2</sup>	1.5~2.5mm <sup>2</sup> 2×2.5mm <sup>2</sup>
	PZ2:6mm	14mm	3.5N.m	1.5~6mm <sup>2</sup>	1~4mm <sup>2</sup>	
	40A-63A				6~25mm <sup>2</sup>	6~16mm <sup>2</sup>



### Modular contactor power consumption

Poles	Rated current		Control Voltage (Vac/Vdc)	Power consumption		Max Power
	AC- 1	AC- 3		Hold on	Pull in	
1P	16A	6A	230	2.1VA	2.1VA	2.0W
	20A	7A	230	2.1VA	2.1VA	2.0W
	25A	9A	230	2.1VA	2.1VA	2.0W
2P	40A	18A	230	2.3VA	2.3VA	2.0W
	63A	25A	230	2.3VA	2.3VA	2.0W
	16A	6A	230	2.3VA	2.3VA	2.0W
3P	20A	7A	230	2.3VA	2.3VA	2.0W
	25A	9A	230	2.3VA	2.3VA	2.0W
4P	40A	18A	230	6.0VA	6.0VA	5.5W
	63A	25A	230	6.0VA	6.0VA	5.5W

## Product packing specification

contactor specification	Rated current (A)	Number of Boxes	Number of Cartons	Gross Weight (KG)	Net Weight (KG)	Outer Carton Dimensions (mm)
1P	16	12	120	17.6	15.4	500×2 60× 190
	20	12	120	17.6	15.4	500×2 60× 190
	25	12	120	17.6	15.4	500×2 60× 190
2P	40	6	60	17.7	15.9	500×2 60× 190
	63	6	60	17.7	15.9	500×2 60× 190
3P	16	6	60	16.1	14.2	500×2 60× 190
	20	6	60	16.1	14.2	500×2 60× 190
	25	6	60	16.1	14.2	500×2 60× 190
4P	40	4	40	17.4	15.7	500×2 60× 190
	63	4	40	17.4	15.7	500×2 60× 190
9mm Sp acer	/	24	360	6.38	5.18	455×2 30×2 40

## Product size (mm)

