

HIITIO®

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HVACR Parts Catalog

ZHEJIANG HIITIO NEW ENERGY CO.,LTD.

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18 years experience for HVAC/R parts

More Professional More Reliable More Helpful

Zhejiang Hecheng Smart Electric Co, Ltd. (referred to as Hecheng Electric) was established in 2004 and is now headquartered at No.1125, Zhixing Road, Xiaoshan Economic and Technological Development Zone, Hangzhou City Zhejiang Province. Hecheng headquarters base 30000 square meters. Hecheng is a leading supplier of new energy industry and industrial control solutions in the world. At present, another large production base of Hecheng Electric is located in Mingguang, Anhui Province, with an area of 14 acres and a plant area of 20000 square meters. Hecheng Electric focuses on new energy vehicles, photovoltaic, energy storage, HVAC/R, industrial control, etc. Hecheng's main R&D production and operation products include: ceramic high-voltage DC relay/contactor, high-voltage DC fuse, airconditioning contactor, IEC contactor, UL 489 circuit breaker and disconnect box, etc. Hecheng's products all have passed UL, CSA, INTERTEK CE, CCC and other certifications.

Hecheng Electric aims at product research and development, 10% of the company's annual revenue is spent on R&D and 2% on IT penetration. Currently, the proportion of R&D personnel with more than 10 years of working experience in the industry is as high as 35%.

In addition, Hecheng Electric has introduced advanced automatic production lines and advanced laboratory testing equipment. We strictly implemented the IATF16949 system in the whole process. PLM + ERP + MES technology realizes the digitalization and intellectualization of the factory. The whole process of R&D, production and sales is able to be traced.





APPLICATION AREA

Electrical System

Building Facilities Management

Industrial control

Machinery

HVAC

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DEFINITE PURPOSE
CONTACTOR
SA series

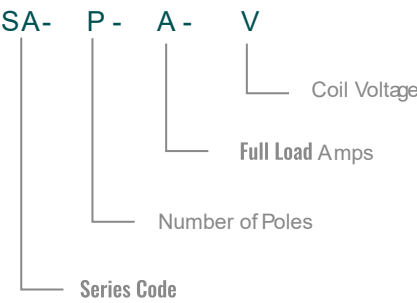
SA Series
Definite Purpose Contactors, 20~90A



Features

Certificates:	UL-E246810; CSA-256361; CCC-201301 0304614127; Semko/CE File No. EN60947-4-1:2010;
Application:	HVAC/R;
Standard:	UL508; ARI 780/790;RoHS Compliance; Class 3211 04/ 3211 84; Class NLDX2/ NLDX8;
Temperature Range:	-40°F to+150°F / -40°C to+65°C;

Ordering Guide



DEFINITE PURPOSE
CONTACTOR
SA series

Ordering Information

Hecheng Catalog number	CONTACTOR FORM PER CIRCUIT	FULL LOAD CURRENT INDUCTIVE	LOCKED ROTOR CURRENT	LOCKED ROTOR CURRENT	LOCKED ROTOR CURRENT	RESISTIVE AMPS RATING	NOMINAL COIL VOLTAGE	WEIGHT
SA-1.5P-20A	1 Pole NO With Shunt	20A	120A@240VAC -277VAC	100A@480VAC	80A@600VAC	30A	24VAC 120VAC 208/240VAC 277VAC	0.5lb
SA-1.5P-25A	1 Pole NO With Shunt	25A	150A@240VAC -277VAC	125A@480VAC	100A@600VAC	35A		
SA-1.5P-30A	1 Pole NO With Shunt	30A	180A@240VAC -277VAC	150A@480VAC	120A@600VAC	40A		
SA-1.5P-40A	1 Pole NO With Shunt	40A	240A@240VAC -277VAC	200A@480VAC	160A@600VAC	50A		
SA-2P-20A	2 Pole NO	20A	120A@240VAC -277VAC	100A@480VAC	80A@600VAC	30A	24VAC 120VAC 208/240VAC 277VAC	0.6lb
SA-2P-25A	2 Pole NO	25A	150A@240VAC -277VAC	125A@480VAC	100A@600VAC	35A		
SA-2P-30A	2 Pole NO	30A	180A@240VAC -277VAC	150A@480VAC	120A@600VAC	40A		
SA-2P-40A	2 Pole NO	40A	240A@240VAC -277VAC	200A@480VAC	160A@600VAC	50A		
SA-2P-50A	2 Pole NO	50A	300A@240VAC -277VAC	250A@480VAC	200A@600VAC	65A	24VAC 110/120VAC 208/240VAC 277VAC	2lbs
SA-2P-60A	2 Pole NO	60A	360A@240VAC -277VAC	300A@480VAC	240A@600VAC	75A		4lbs
SA-2P-75A	2 Pole NO	75A	450A@240VAC -277VAC	375A@480VAC	300A@600VAC	90A		
SA-2P-90A	2 Pole NO	90A	540A@240VAC -277VAC	450A@480VAC	360A@600VAC	120A		
SA-3P-20A	3 Pole NO	20A	120A@240VAC -277VAC	100A@480VAC	80A@600VAC	30A	24VAC 110/120VAC 208/240VAC 277VAC	1lb
SA-3P-25A	3 Pole NO	25A	150A@240VAC -277VAC	125A@480VAC	100A@600VAC	35A		2lbs
SA-3P-30A	3 Pole NO	30A	180A@240VAC -277VAC	150A@480VAC	120A@600VAC	40A		
SA-3P-40A	3 Pole NO	40A	240A@240VAC -277VAC	200A@480VAC	160A@600VAC	50A		
SA-3P-50A	3 Pole NO	50A	300A@240VAC -277VAC	250A@480VAC	200A@600VAC	65A		
SA-3P-60A	3 Pole NO	60A	360A@240VAC -277VAC	300A@480VAC	240A@600VAC	75A		
SA-3P-75A	3 Pole NO	75A	450A@240VAC -277VAC	375A@480VAC	300A@600VAC	90A		
SA-3P-90A	3 Pole NO	90A	540A@240VAC -277VAC	450A@480VAC	360A@600VAC	120A		4lbs
SA-4P-25A	4 Pole NO	25A	150A@240VAC -277VAC	125A@480VAC	100A@600VAC	35A	24VAC 110/120VAC 208/240VAC 277VAC	1.5lbs
SA-4P-30A	4 Pole NO	30A	180A@240VAC -277VAC	150A@480VAC	120A@600VAC	40A		
SA-4P-40A	4 Pole NO	40A	240A@240VAC -277VAC	200A@480VAC	160A@600VAC	50A		

DEFINITE PURPOSE
CONTACTOR
HCDP series

HCDP Series
Definite Purpose Contactors, 20~90A

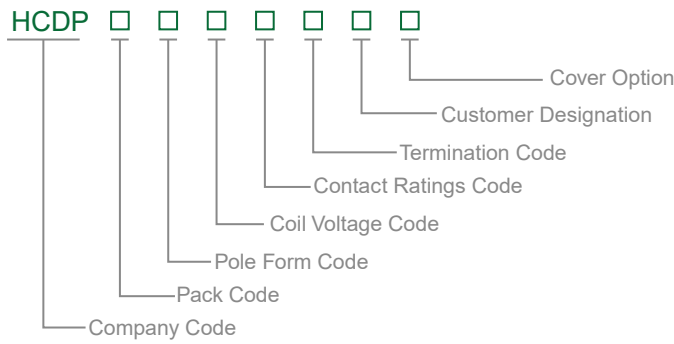


Features

Certificates:	UL-E246810; CSA-256361;
Application:	HVAC/R;
Standard:	UL508; UL60947; ARI 780/790; RoHS Compliance;
Emperature Range:	-40°F to+150°F / -40°C to + 65°C;



Ordering Guide



DEFINITE PURPOSE
CONTACTOR
HCDP series

Ordering Information

HECHENG CATALOGUE NUMBER	CONTACTOR FORM PER CIRCUIT	FULL LOAD CURRENT INDUCTIVE	LOCKED ROTOR CURRENT	LOCKED ROTOR CURRENT	LOCKED ROTOR CURRENT	LOCKED ROTOR CURRENT	RESISTIVE AMPS RATING	NOMINAL COIL VOLTAGE	WEIGHT
HCDPY1-1P-20A	1 Pole NO	20A	120A@ 240VAC	110A@ 277VAC	100A@ 480VAC	80A@ 600VAC	25A	24VAC	1lb
HCDPY1-1P-25A	1 Pole NO	25A	150A@ 240VAC	150A@ 277VAC	100A@ 480VAC	80A@ 600VAC	35A	120VAC	
HCDPY1-1P-30A	1 Pole NO	30A	180A@ 240VAC	180A@ 277VAC	150A@ 480VAC	120A@ 600VAC	40A	208/240VAC 277VAC	
HCDPY1-1P-35A	1 Pole NO	35A	180A@ 240VAC	180A@ 277VAC	150A@ 480VAC	120A@ 600VAC	50A	380VAC	
HCDPY1-1P-40A	1 Pole NO	40A	240A@ 240VAC	240A@ 277VAC	200A@ 480VAC	160A@ 600VAC	55A	480VAC	
HCDPY2-2P-20A	2 Pole NO	20A	120A@ 240VAC	120A@ 277VAC	100A@ 480VAC	80A@ 600VAC	30A	24VAC	1lb
HCDPY2-2P-25A	2 Pole NO	25A	150A@ 240VAC	150A@ 277VAC	125A@ 480VAC	100A@ 600VAC	35A	120VAC	
HCDPY2-2P-30A	2 Pole NO	30A	180A@ 240VAC	180A@ 277VAC	135A@ 480VAC	110A@ 600VAC	40A	208/240VAC 277VAC	
HCDPY2-2P-35A	2 Pole NO	35A	200A@ 240VAC	200A@ 277VAC	135A@ 480VAC	110A@ 600VAC	50A	380VAC	
HCDPY2-2P-40A	2 Pole NO	40A	240A@ 240VAC	240A@ 277VAC	200A@ 480VAC	160A@ 600VAC	55A	480VAC	
HCDPY3-2P-25A	2 Pole NO	25A	/	150A@ 240VAC	125A@ 480VAC	100A@ 600VAC	35A	24VAC 120VAC 208/240VAC 277VAC 380VAC 480VAC	1 1/2 lbs
HCDPY3-2P-30A	2 Pole NO	30A	/	180A@ 240VAC	150A@ 480VAC	120A@ 600VAC	40A		
HCDPY3-2P-40A	2 Pole NO	40A	/	240A@ 240VAC	200A@ 480VAC	160A@ 600VAC	50A		
HCDPY3-2P-50A	2 Pole NO	50A	/	300A@ 240VAC	300A@ 480VAC	200A@ 600VAC	63A		
HCDPY3-2P-60A	2 Pole NO	60A	/	360A@ 240VAC	300A@ 480VAC	240A@ 600VAC	75A		
HCDPY3-2P-75A	2 Pole NO	75A	/	450A@ 240VAC	375A@ 480VAC	300A@ 600VAC	93A	480VAC	3 1/2 lbs
HCDPY3-2P-90A	2 Pole NO	90A	/	540A@ 240VAC	450A@ 480VAC	360A@ 600VAC	120A		
HCDPY3-3P-25A	3 Pole NO	25A	/	150A@ 240VAC	125A@ 480VAC	100A@ 600VAC	35A	24VAC 120VAC 208/240VAC 277VAC 380VAC 480VAC	3 1/2 lbs
HCDPY3-3P-30A	3 Pole NO	30A	/	180A@ 240VAC	150A@ 480VAC	120A@ 600VAC	40A		
HCDPY3-3P-40A	3 Pole NO	40A	/	240A@ 240VAC	200A@ 480VAC	160A@ 600VAC	50A		
HCDPY3-3P-50A	3 Pole NO	50A	/	300A@ 240VAC	300A@ 480VAC	200A@ 600VAC	63A		
HCDPY3-3P-60A	3 Pole NO	60A	/	360A@ 240VAC	300A@ 480VAC	240A@ 600VAC	75A		
HCDPY3-3P-75A	3 Pole NO	75A	/	450A@ 240VAC	375A@ 480VAC	300A@ 600VAC	93A		
HCDPY3-3P-90A	3 Pole NO	90A	/	540A@ 240VAC	450A@ 480VAC	360A@ 600VAC	120A		
HCDPY4-4P-25A	4 Pole NO	25A	/	150A@ 240VAC	125A@ 480VAC	100A@ 600VAC	35A	24VAC 120VAC 208/240VAC 277VAC 380VAC 480VAC	1 1/2 lbs
HCDPY4-4P-30A	4 Pole NO	30A	/	180A@ 240VAC	150A@ 480VAC	120A@ 600VAC	40A		
HCDPY4-4P-40A	4 Pole NO	40A	/	240A@ 240VAC	200A@ 480VAC	160A@ 600VAC	50A		

IEC CONTACTOR
SERIES
HC5 Series Contactor

HC5 Series Contactor



Features

- Modular design, compact product structure
- Safe and reliable operation performance
- The special process of the contacts ensures continuous and reliable conduction
- Convenient installation without tools to install and remove accessories
- A variety of connection wire terminal options, wide range of wiring capabilities
- Better impact resistance and seismic performance
- Low power consumption coil
- Dustproof performance, optional dustproof accessories can be added
- Complete accessories
- CCC,CB,CE,SEMKO,UL certification



Main Parameters

Rated operational current (Ie) :	6-300A
Rated operational voltage (Ue) :	Up to 1000V
Rated insulation voltage (Ui) :	1000V
Number of Poles:	3P, 4P (4P only for HC6-06M~12M)
Coil control type:	AC,DC

Normal service conditions and mounting conditions

Item	Description
Installation Category	III
Pollution Degree	3
Enclosure Protection Degree	IP20/IP00
Ambient Air Temperature	Normal operational temperature -13°F~+140°F (-25°C~+60°C)
Atmospheric Conditions	The relative air humidity does not exceed 50% at a maximum temperature of +140°F (+60°C). Higher relative humidity may be permitted at lower temperatures, Such as 90% at +68°F (+20°C).
Mounting Condition	The inclination of mounting surface and vertical plane is not more than±30°.
Mounting:	DIN Rail, Plate

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IEC CONTACTOR
SERIES
HC5 Series Contactor

HC5	11	K	N	220V	50/60Hz	10
Company Code 5 series	Rated Current	Operational Characteristics	Applicability	Coil voltage	Voltage frequency	Auxiliary contact
	6=6A 9=9A 11=11A 16=16A 18=18A 23=23A 32=32A 38=38A 40=40A 50=50A 65=65A 80=80A 90=90A 100=100A 125=125A 150=150A 180=180A 220=220A 300=300A	Blank: Main circuit 3 normally open A: Main circuit 4 normally open AB: Main circuit 2 normally open 2 normal close K: DC Operaton (For HC5-6K)	Nil: Non-reversible contactor N: reversible contactor	24V 36V 48V 110V 220V 230V 380V	50/60Hz 50Hz 60Hz DC AC/DC	Auxiliary contact description 10:1NO(HC5-6,9,11,16) 01:1NC(HC5-6,9,11,16) 11:1NO1NC(HC5-18,23,32,38,40) 20:2NO(HC5-18,23,32) 02:2NC(HC5-18,23) 22:2NO2NC(HC5-50,65,80,90,100,125,150,180,220,300) Blank:A/AB:No auxiliary contact (HC5-11,16,18,23)

HCAS	B	HCAZ	B
Coil Surge Suppressors	Type	Coil Driver	Type
	B:22~24V (b) C:45~50V E:100~120V H:200~240V O:380~440V		B :22~24V (C) C:45~50V E:100~120V H:200~240V O:380~440V

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IEC CONTACTOR
SERIES
HCR5 Series Contactor

HCAU	2T	11
Auxiliary Contacts	Type	Auxiliary Contact Type
	2R,4R:Top-mounting auxiliary contacts(HC5-6) 2T,4T:Top-mounting auxiliary contacts (HC5-9~300) 2F11:1NO1NC Side-mounting auxiliary contacts (HC5-11~90) 2V11:1NO1NC Side-mounting auxiliary contacts (HC5-100~300)	11:1NO+1NC 20: 2NO 02: 2NC 22: 2NO+2NC 13: 1NO+3NC 31: 3NO+1NC 04: 4NC 40: 4NO

HCAI	18	A
Mechanical Interlock	Type	Auxiliary Contact Type
	Mechanical Interlock 6(For HC5-6) 18(For HC5-9~38) 35(For HC5-100~300) 100(For HC5-100~300)	Nil: Mechanical Interlock A: Mechanical Interlock & Electric Interlock,(1NO1NC) Only 6A (For HC5-6) &18A(For HC5-9~38)

HCRC	4	-22	220V	50/60Hz
Control relay	Type	Auxiliary contact type	Coil voltage	Voltage frequency
	4:6A shell frame grade 4K:DC 6A shell frame 5:11A shell frame grade	04:4 NC 13:1 NO+3 NC 22:2 NO+2 NC 31:3 NO+1 NC 40:4 NO	24V 36V 48V 110V 220V 230V 380V	50/60Hz 50Hz 60Hz DC(Only for 4K)

AC CONTACTOR
SERIES
HCR5 Series Contactor

HCR5 series overload relay

HCR 5	6	L	0.16	A	1	P
Relay model	Model Names	Installation	Curent Range	Protection Functions	Matching frame	Independent mounting base
	6 38 100 300	Blank: Screw type L: LUG type terminal blocks	0.16~336	A:3 poles, with out-of-phase protection M:3 poles, no out-of-phase protection K:2 poles, no out-of-phase protection	1, 2, 3, 4, 5 means overload relays are suitable for different AC contactor frames See the table below for details	Nil:With no accessories P:With Panel Mounting Adapter HC5-38 for RP-10 , purchased separately. HC5-100 Independent mounting base is installed before leaving the factory;



Model/Cat	HCR5-6/	HCR5-38/ 1	HCR5-38/□□2	HCR5-100/	HCR5-100/	HCR5-100/	HCR5-100/	HCR5-100/	HCR5-100/□□□	HCR5-300/
Current Range ()Max.Setting Current	0.1~0.16(0.16)	0.1~0.16(0.16)	9~12.5(12.5)	17~25(25)	17~25(25)	24.5~36(36)	17~25(25)	58~75(75)	17~25(25)	87~120(120)
	0.1~0.25(0.25)	0.1~0.25(0.25)	11.3~16(16)	24.5~36(36)	24.5~36(36)	35~47(47)	24.5~36(36)	72~90(90)	24.5~36(36)	105~144(144)
	0.25~0.4(0.4)	0.25~0.4(0.4)	15~20(20)			45~60(60)	35~47(47)	77~97(97)	35~47(47)	145~200(200)
	0.35~0.5(0.5)	0.35~0.5(0.5)	17.5~21.5(21.5)			58~75(75)			45~60(60)	175~240(240)
	0.45~0.63(0.63)	0.45~0.63(0.63)	21~25(25)			72~90(90)			58~75(75)	203~280(280)
	0.55~0.8(0.8)	0.55~0.8(0.8)	24.5~30(30)						72~90(90)	245~336(336)
	0.75~1(1)	0.75~1(1)	29~36(36)						77~97(97)	
	0.9~1.3(1.3)	0.9~1.3(1.3)	33~38(38)							
	1.1~1.6(1.6)	1.1~1.6(1.6)								
	1.4~2(2)	1.4~2(2)								
	1.8~2.5(2.5)	1.8~2.5(2.5)								
	2.3~3.2(3.2)	2.3~3.2(3.2)								
	2.9~4(4)	2.9~4(4)								
	3.5~4.8(4.8)	3.5~4.8(4.8)								
	4.5~6.3(6.3)	4.5~6.3(6.3)								
	5.5~7.5(7.5)	5.5~7.5(7.5)								
	7.2~10(10)	7.2~10(10)								
	9~12.5(12.5)	9~12.5(12.5)								
For Use With Contactors										
Panel mounting Adapter										

Remark
1、HCR5-6~100 is UL certified, HCR5-300 is not UL certified;
2、HCR5-300 with current transformer base

Example:
P/N: HCR5-100L/ 75A3
HC5 series thermal overload relay, 100A frame, LUG type terminal, adjustable rated current 58~75A,
3-pole, with out-of-phase protection, suitable for HC5-50/65/80/90 AC contactor

RELAYS
PR3 series

PR3 Series Relays

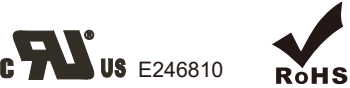


Features

- 25A switching capability
- Has a variety of mounting positions
- With a variety of wiring
- Dust cover type packaging structure
- Double break contact

Standards/Approvals:

- UL 508 and CAN/CSA C22.2 NO.14-2010



Product model and specification

Item ID	Rated voltage(VAC)	Pick-Up(VAC)	Drop Out(VAC)	Coil resistance(Ω)	Contact resistance(mΩ)	Contact form
PR360	24	≤20.4	≥4.8	90×(1±10%)	≤50	SPST-NO
PR362	120	≤102.0	≥24	2000×(1±10%)	≤50	SPST-NO
PR364	240	≤204.0	≥48	7200×(1±10%)	≤50	SPST-NO
PR366	277	≤235	≥55.7	11000×(1±10%)	≤50	SPST-NO
PR370	24	≤20.4	≥4.8	90×(1±10%)	≤50	SPDT
PR372	120	≤102.0	≥24	2000×(1±10%)	≤50	SPDT
PR374	240	≤204.0	≥48	7200×(1±10%)	≤50	SPDT
PR376	277	≤235	≥55.7	11000×(1±10%)	≤50	SPDT
PR380	24	≤20.4	≥4.8	90×(1±10%)	≤50	SPST NO+NC
PR382	120	≤102.0	≥24	2000×(1±10%)	≤50	SPST NO+NC
PR384	240	≤204.0	≥48	7200×(1±10%)	≤50	SPST NO+NC

RELAYS
PR29 series

PR29 Series Relays



Features

- 16A switching capability
- Has a variety of mounting positions
- With a variety of wiring
- Dust cover type packaging structure

Standards/Approvals:

- UL 508 and CAN/CSA C22.2 NO.14-2010



Product model and specification

Item ID	Rated voltage (VAC)	Pick-Up (VAC)	Drop Out (VAC)	Coil resistance (Ω)	Contact resistance(mΩ)	Contact form
PR290Q	24	≤20.4	≥4.8	90×(1±10%)	≤50	SPST-NO
PR291Q	120	≤102.0	≥24	2000×(1±10%)	≤50	SPST-NO
PR292Q	240	≤204.0	≥48	7200×(1±10%)	≤50	SPST-NO
PR293Q	24	≤20.4	≥4.8	90×(1±10%)	≤50	SPDT
PR294Q	120	≤102.0	≥24	2000×(1±10%)	≤50	SPDT
PR295Q	240	≤204.0	≥48	7200×(1±10%)	≤50	SPDT

RELAYS
PR34 series

PR34 Series Relays



Features

- 25A switching capability
- Has a variety of mounting positions
- With a variety of wiring
- Dust cover type packaging structure
- Used on heat pumps, vending machines, fans and heating and heating and air conditioning

Standards/Approvals:

- UL 508 and CAN/CSA C22.2 NO.14-2010



Product model and specification

Item ID	Rated voltage(VAC)	Pick-Up (VAC)	Drop Out (VAC)	Coil resistance (Ω)	Contact resistance(mΩ)	Contact form
PR-340	24	≤20.4	≥4.8	19×(1±10%)	≤50	DPDT
PR-341	104/120	≤102.0	≥24	440×(1±10%)	≤50	DPDT
PR-342	208/240	≤204.0	≥48	1600×(1±10%)	≤50	DPDT
PR-343	24	≤20.4	≥4.8	19×(1±10%)	≤50	SPDT
PR-344	104/120	≤102.0	≥24	440×(1±10%)	≤50	SPDT
PR-345	208/240	≤204.0	≥48	1600×(1±10%)	≤50	SPDT
PR-346	24	≤20.4	≥4.8	19×(1±10%)	≤50	DPST-NO
PR-347	104/120	≤102.0	≥24	440×(1±10%)	≤50	DPST-NO
PR-348	208/240	≤204.0	≥48	1600×(1±10%)	≤50	DPST-NO

RELAYS
PR60 series

PR60 Series Relays
40 AMP MINIATURE POWER RELAY



Features

- DPST-NO and DPDT configuration
- Meets 8mm creepage, 4kV dielectric
- Epoxy sealed versions available
- UL Class F (155°C) standard

Standards/Approvals:

- UL 508 and CAN/CSA C22.2 NO.14-2010



Product model and specification

Product family	Contact type	Coil voltage	Coil pin specifications	illustrate
PR60	2A	5D	F	Contact Type: 2A: 2 groups of normally open contacts 2B: 2 groups of normally closed contacts 2C: 2 groups of conversion contacts Coil voltage: 24D: DC 24V 24A5: AC 24V 50Hz 24A6: AC 24V 50/60Hz Coil pin specifications: F: The coil pin specification is 6.35*0.8 KF: The coil pin specification is 4.75*0.5 PF: The coil pin specification is PCB pin type
		6D		
		12D		
		24D		
		48D		
		110D		
		12A5		
		24A5		
	2B	120A5	KF	
		220A5		
		240A5		
		277A5		
	2C	12A6	PF	
		24A6		
		120A6		
		220A6		
		240A6		
		277A6		

High-protection type: Add the letter "E" after the coil voltage. For example: PR60-2A-24DF changed to PR60-2A-24DEF
The coil pin specification is 4.75*0.5: replace "F" with "KF". For example: PR60-2C-24A6F changed to PR60-2C-24A6KF
The coil pin specification is PCB pin type: replace "F" with "PF". For example: PR60-2C-24A5F changed to PR60-2C-24A6PF

RELAYS
PR90 series

PR90 Series Relays



Features

- 50A switching capability
- Has a variety of mounting positions
- With a variety of wiring
- Dust cover type packaging structure
- Used on heat pumps,vendingmachines, fans,and heating and heating and air conditioning

Standards/Approvals:

- UL 508 and CAN/CSA C22.2 NO.14-2010



Product model and specification

OPERATING CHARACTERISTICS AT 60Hz H.P.U. = Approximate Pick-up at 90°C P.U. and D.O. values at 25°C

Coil number	63			50		65		69		58		66		71		61		64	
Vmax at 40°C (V)	170			332		336		375		379		395		420		450		500	
Resistance at 25°C(Ω)	1500			5600		5700		7500		7600		10000		10700		11000		13800	
	H.P.U.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.
A	120-130	111-124	20-45																
B	130-140	120-134	20-45	132-148	40-90														
C	140-150	130-144	20-45	140-153	40-90														
D	150-160	140-153	20-45	150-163	40-90														
E	160-170	149-163	20-45	162-175	40-90	162-175	40-90												
F	170-180			171-184	40-90	171-184	40-90												
G	180-190			180-193	40-90	180-193	40-90					180-195	40-105						
H	190-200			186-215	40-90	186-215	40-90	180-195	40-105	180-195	40-105	189-205	40-105	180-195	60-121				
I	200-220			205-234	40-90	205-234	40-90	190-215	40-105	190-215	40-105	186-214	60-130	189-224	60-121				
L	220-240			224-252	40-90	224-252	40-90	208-239	50-110	208-239	50-110	204-233	60-130	204-233	60-121				
M	240-260			243-271	40-90	243-271	40-90	224-252	50-110	224-252	50-110	223-252	60-130	223-259	60-121	223-252	60-130		
N	260-280							239-270	50-110	239-270	50-110	242-272	60-140	242-272	60-121	239-268	60-135	239-268	60-135
O	280-300							260-289	50-110	260-289	50-110	262-290	60-140	262-290	60-121	258-287	60-135	258-287	60-135
P	300-320											280-310	60-140	280-310	60-121	277-305	60-135	277-305	60-135
Q	320-340											300-328	60-140	300-328	60-121	295-324	60-135	295-324	60-135
R	340-360													318-347	60-121	314-342	60-135	314-342	60-135
S	360-380																	323-352	60-135

RELAYS
PR90 series

OPERATING CHARACTERISTICS AT 50Hz H.P.U. = Approximate Pick-up at 90°C P.U. and D.O. values at 25°C

Coil number	63			50		65		69		58		66		71		61		64	
Vmax at 40°C (V)	170			332		336		375		379		395		420		450		500	
Resistance at 25°C(Ω)	1500			5600		5700		7500		7600		10000		10700		11000		13800	
	H.P.U.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.
AA	120-130	111-124	20-45																
AB	130-140	120-134	20-45	132-148	40-90														
AC	140-150	130-144	20-45	140-153	40-90														
AD	150-160	140-153	20-45	150-163	40-90														
AE	160-170	149-163	20-45	162-175	40-90	162-175	40-90												
AF	170-180			171-184	40-90	171-184	40-90												
AG	180-190			180-193	40-90	180-193	40-90					180-195	40-105						
AH	190-200			186-215	40-90	186-215	40-90	180-195	40-105	180-195	40-105	189-205	40-105	180-195	60-121				
AI	200-220			205-234	40-90	205-234	40-90	190-215	40-105	190-215	40-105	186-214	60-130	189-224	60-121				
AL	220-240			224-252	40-90	224-252	40-90	208-239	50-110	208-239	50-110	204-233	60-130	204-233	60-121				
AM	240-260			243-271	40-90	243-271	40-90	224-252	50-110	224-252	50-110	223-252	60-130	223-259	60-121	223-252	60-130		
AN	260-280							239-270	50-110	239-270	50-110	242-272	60-140	242-272	60-121	239-268	60-135	239-268	60-135
AO	280-300							260-289	50-110	260-289	50-110	262-290	60-140	262-290	60-121	258-287	60-135	258-287	60-135
AP	300-320											280-310	60-140	280-310	60-121	277-305	60-135	277-305	60-135
AQ	320-340											300-328	60-140	300-328	60-121	295-324	60-135	295-324	60-135
AR	340-360													318-347	60-121	314-342	60-135	314-342	60-135
AS	360-380																	323-352	60-135

If a 60Hz model is used at 50Hz, its 50Hz PU will be about 13% lower.

If a 50Hz model is used at 60Hz, its 60Hz PU will be about 13% higher.

CIRCUIT BREAKERS
SERIES

HCB1U-60 MCB

Product application:

- Power supply equipment: UPS power supply, switching power supply, inverter power supply
- Household appliances: lighting appliances, socket appliances
- HVAC equipment: heating, ventilation, air conditioning, refrigeration (internal/external)
- Industrial control cabinet: automation equipment, machine tool equipment
- Transportation system: signal control, communication network
- Wire temperature rating of 60/75℃ , Cu wire only



Certifications/Standards:



Product Model:								
		HC	B1U	-60	C	60	/2	MF
Company Code								
Model:		UL 1 Series MCB						
Frame size:		60						
Tripping Curve:		C: Type C Curves 8In±20%						
Rated current(A):		5:5A 10: 10A 15: 15A 20: 20A 25: 25A 30: 30A 35: 35A 40: 40A 45: 45A 50: 50A 60: 60A						
Pole		1: 1P 2: 2P 3: 3P						
Optional accessories, MF: mounting foot, SC:Safety cover, HS: Handle safety lock,HT: Hand Tie								

PULL-OUT
SWITCHES

PDSB

Pull out Disconnect Switch



General

Certificates:	UL-E255965;
Standard:	UL 1429; CSA C22.2 NO. 29-15;
Compliance:	RoHS compliant;



Technical Data

Pull out Disconnect Switch

Model	Load wiring method	Description	Voltage	Horsepower	Amps	Locked rotor Amps	Phase	Weight
PDSB-60AN	QC	Non-Enclosed Non-Fused Pullout Switch	240V	10HP	60	180	1	.301lb
PDSB-60ANP	Screw							

DISCONNECT
SWITCH BOX

PDS & PCDS

A/C Disconnect Switch Box



General

An air conditioning disconnect is a disconnect located between a load center (distribution panel) and air conditioner.

Air Conditioning Disconnects product line provides an installer or repair personnel with a visible disconnecting means for Air Conditioning Disconnects. Disconnects are also known as disconnects, pullouts or air Non-fused pullout devices conditioning switches. Provide personnel with a visible ON-OFF disconnecting means. While fused pullout units also perform this function, they also provide an additional level of devices are of a pullout design, where the user physically removes or “pulls out” a tab to break the electrical connection.

Certification&Compliance

UL Certificates:	E255965;
Application:	HVAC/R;
Standard:	UL 1429; CSA C22.2 NO. 29-15;
Compliance:	RoHS Compliance;



DISCONNECT
SWITCH BOX

Specification

Cat. No.	Main Ampere Rating	HP Rating		Wire Size Range Cu/Al 60 or 75C	Product Code	Full Load Amps	Fuse
		120V	240V				
PDS-30A, PCDS-30A	30AMP, 240VAC 1 PHASE, 3 WIRE	STD. 0.5 MAX. 2	STD. 1.5 MAX. 3	#14-3	PCDS: Plastic Enclosure; PDS: Metal Enclosure	60A: 60A; 30A: 30A;	Nil: Fused; N: Non-Fused;
PDS-60A, PCDS-60A	60AMP, 240VAC 1 PHASE, 3 WIRE	STD. 1.5 MAX. 3	STD. 3 MAX. 10	#14-3			
PDS-60AN, PCDS-60AN	60AMP, 240VAC 1 PHASE, 3 WIRE	-	STD. 3 MAX. 10	#14-3			



PDS-60AN



PDS-60A



PDS-30A



PCDS-60AN



PCDS-60A



PCDS-30A

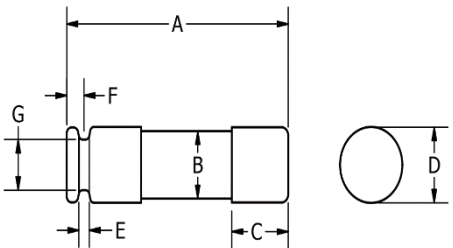
CLASS RK5 FUSE
HCNR Series

Class RK5 Fuses



Standards/Approvals:

Refer To UL 248.1/UL 248.12/Guide JDDZ
Reach Declaration Available Upon Request;
CE;UL pending
RoHS Compliant



Catalog Numbers (Amps)

HCNR xx(xx-Amps)						
HCNR01	HCNR02	HCNR03	HCNR04	HCNR05	HCNR06	HCNR07
HCNR08	HCNR09	HCNR10	HCNR12	HCNR15	HCNR20	HCNR25
HCNR30	HCNR35	HCNR40	HCNR45	HCNR50	HCNR60	

Dual-Element, Time Delay 10 seconds (minimum) at 500% rated current (8 seconds for fuses 30A or less)

HIITIO

Motor Circuit Breaker
Series

HCMS-32S Motor Circuit Breaker

Product Features:

- Overload, underphase and high breaking protection;
- Short-circuit electromagnetic tripping value 13 times Ie;
- Thermodynamic adjustable tripping, Class10 tripping grade;

Approvals/Standards:

IEC 60947-1,60947-2,60947-4-1
EN 60947-1,60947-2,60947-4-1
UL 60947-4-1



Product Model:

	HC	MS	- 32	S	10	
Company Code						
Motor circuit breaker						
Frame Current : 32						
S:	Standard					
HCMS-32S	0.16: 0.1~0.16A 1.6:1~1.6A 10:6.3~10A 32:24~32A	0.25:0.16~0.25A 2.5:1.6~2.5A 13:9~13A	0.4:0.25~0.4A 4:2.5~4A 16:11~16A	0.63:0.4~0.63A 6:4~6A 20:14~20A	1:0.63~1A 8:5~8A 25:19~25A	
accessories : Auxiliary contact, Shunt release , Undervoltage release						

Product Horsepower

According to the standard	Rated Current (A)	Current Class	Single phase		Single phase		
			110-120V	220-240V	220-240V	440-480V	550-600V
UL 60947-4-1	0.16	0.1-0.16A	-	-	-	-	-
	0.25	0.16-0.25A	-	-	-	-	-
	0.4	0.25-0.4A	-	-	-	-	-
	0.63	0.4-0.63A	-	-	-	-	-
	1	0.63-1.0A	-	-	-	-	1/2
	1.6	1.0-1.6A	-	1/10	-	3/4	3/4
	2.5	1.6-2.5A	-	1/6	1/2	1	5 1/2
	4	2.5-4A	1/8	1/3	3/4	2	3
	6	4-6A	1/4	1/2	1 1/2	3	5
	8	5-8A	1/3	1	2	5	5
	10	6.3-10A	1/2	1 1/2	3	5	7 1/2
	13	9-13A	1/2	2	3	7 1/2	10
	16	11-16A	1	2	5	10	10
	20	14-20A	1 1/2	3	5	10	15
	25	19-25A	2	-	7 1/2	15	20
	32	24-32A	2	5	10	20	30

HIITIO