Precharge DC ContacHEV-R Precharge DC Contactor



USES

This product is used to connect capacitive load, and has the function of pre-charging capacity. It is suitable for electric vehicles, charging piles, automobile air conditioning, energy-saving and environmental protection system, road traffic lighting system, programmable power supply and uninterrupted power supply equipment.

HEV		<u>-7</u>	<u>A</u>	<u>R(Y)</u>	<u>X</u>	L	<u>- 🗆</u>	<u>*</u>	<u>/12V</u>	
1	2	3	4	5	6	7	8	9	10	

1 Product type

- 2 Rated current
- 3 Contact Rated Voltage: 1:200V; 7:1000V
- 4 Circuit structure: A normally open; B normally closed; F normally open with one auxiliary switch (the auxiliary switch and main contact have the same structure); G one normally closed with one auxiliary (auxiliary switch and main contact have the same structure). (for other auxiliary switch structures, add 2 or 3 numbers after the model to describe the auxiliary switch structure)
- 5 Coil type: H with coil economizer; K dual wire magnetic holding (single coil, dual wire self-locking); 2K three wire magnetic holding (double coil, three wire self-locking); P signal control; R built-in pre charging type [relay drive] (the left digit of the pre charging function is the pre charging delay time, used to control the coil; the right digit is the resistance value with resistance); Y: External pre charging [MOS driver] (The left digit of the pre charging function is the pre charging delay time, and the right digit is used as a lead for controlling the coil. If it is greater than 1, it is the resistance value of the live resistance)
- 6 Coil outgoing mode: X Wire (390mm); O Other
- 7 Mounting bracket type
- 8 None: auxiliary switch and main contact have the same structure (default); 2: The structure of auxiliary switch and main contact is opposite; 3: Special auxiliary switch structure
- 9 Other special functions: V with capacitive type load
- 10 Coil rated voltage: 12V,24V,36V,48V,60V,72V,84V etc.

USE OF THE ENVIRONMENT

Contact lead M10 tightening	ightarrow9.0 appropriate
Coil lead mode	Wire dipping tin (Red positive
Ambient temperature	-40~+85 ℃
Relative humidity	+20 ℃ 98%
Vibration freq. atthe fixed	3G, 1 \sim 50Hz amplitude 0.5mm
Concussion	(60 \sim 100) time/minute \sim
Altitude	2000m
Installation direction	Random

ORDER INSTRUCTION

International Protection IP68 TECHNICAL PARAMETERS

(Version 2.83)

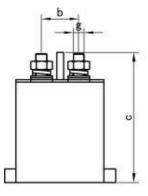
SAYOON Product Type	HEV-R				
Contact form	1 NO(SPST-NO) or 1NC(SPST-NC)				
Coil Rated voltage (DC V)	12V,24V,36V,48V,60V,72V,84V etc.				
Contact voltage (DC V)	150V,450V				
Contact circuit rated load current (DC-1)	30A,50A,100A,200A,250A,400A,500A				
Typical voltage drop across contacts per 100A	≯80mV				
The cooling pull-in voltage at (20±5) $^\circ C$ (V)	⇒70%				
The cooling drop-out voltage at (20±5) $^\circ\!\!\!\!\!^\circ$ (V)	⇒35%,≮5%				
Working voltage range of 40°C coil	0.8-1.2Us				
Drop-out time (n/o contacts to open)	80ms				
Pull-in time (n/o contacts to close)	20ms				
Maximum bounce time for contact connection	10ms				
Maximum bounce time for contact disconnection	7ms				
Insulation Resistance	100ΜΩ				
Electric strength to resist	50Hz/60Hz 2200VAC 1minute				
Typical fault currents which can be ruptured	1500A/5ms at 48V DC				
Coil power (W)	Start:30-60,Keep:2-10				
Temperature rise of coil (K)	≤55				
Temperature rise on outgoing terminal (K)	≤65				
Electrical life	20,000 times				
Mechanical life	300,000 times				
Work specification	Continuous				
Contact material	Alloy				
Inrush time(Max)	130ms				
Maximum switching current	2500A 320VDC (More than 1 times)				
Maximum switching power	800kW				
Load terminal type	M8 Screw				

OTHER TECHNICAL PARAMETERS

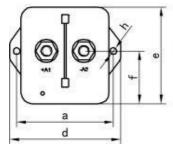
Coil terminal type	0.3 square silicone wire, 390mm long				
Auxiliary contact rated load (option)	3A/30VDC				
Testing organization certification	CCC,CE,FCC,RoHS				

Note: As regarding to the different using environments of customers which requires different focus of the functions, and in order to improve the comprehensive properties of our products, sayoon may adjust the coil parameters, temperature rise and so on. The above parameters are for reference only, For details, please refer to the guidelines for selection and use of the SAYOON DC contactor.

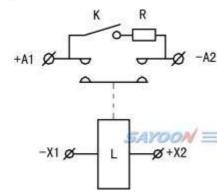
INSTALLATION DIAGRAM



SIZE	а	b	С	d	е	f	g	h
30A	42	14	59	49.4	41.2	24.2	M5	Φ4.7
50A	42	14	59	49.4	41.2	24.2	M5	Φ4.7
100A	46.4	18	61.8	53.8	47.7	27.6	M5	Φ4.7
150A	46.4	18	61.8	53.8	47.7	27.6	M5	Ф4.7
200A	68.28	26.67	97	80.38	65.1	36.3	M8	Ф8
250A	68.28	26.67	97	80.38	65.1	36.3	M8	Φ8
300A	68.28	26.67	97	80.38	65.1	36.3	M8	Ф8
400A	88	34	118.2	101	88	48	M10	Φ6.4
600A	88	/ 34	118.2	101	88	48	M10	Φ6.4

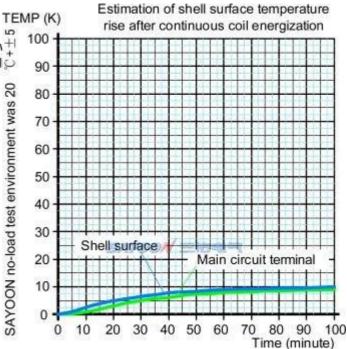


WIRING DIAGRAM



Single Pole Single Throv Contactor. (One Normal Open) +A1.-A2 Main Contact Terminal

TEMPERATURE RISE CURVE



FEATURES

Suitable for new energy electric vehicles, charging facilities, photovoltaic, wind power generation systems, automotive air conditioning, communication power, UPS, power and other electrical control circuit of the switch control, with small size, large load capacity, no spark, long service life, maintenance simple and other characteristics, by users. 1 DC high voltage power: the product cavity filled with rare mixed gas, arc cooling capacity, 2 control load capacity: with 50A-250A, working voltage range of 12-900VDC load capacity; 3 safety: insulation structure, can be in flammable or hazardous environment work, coil and contacts will not oxidation and pollution; 4, compared with similar products small size, light weight, power consumption. The product in accordance with the standard JB2286-78, JB3974-85, YD / 585-92, YD / T512-92 requirements; after the factory and relevant test unit test, meet the requirements of the standard specification, users use for many years, maximum to meet user needs, quality and reliable.

ORDER FORM DESCRIPTION

When ordering, please state the following: name, full model, control coil voltage specification, installation frame type, whether with auxiliary contact, order quantity. For example: Precharge DC Contactor HEV-R- \Box - \Box /24V 100pcs, indicating the load rated current 30A,50A,100A,200A,250A,400A,500A, without auxiliary contact, default mounting bracket, coil control voltage 24V purchase 100pcs. Special voltage specification products, such as user needs can be special order.