Unit: mm

HEV-200-B



Characteristic

- Ceramic brazing sealing technology, to achieve the contact part of airtight packaging, no risk of arc leakage, ensure
 no fire, no burst
- In the airtight package structure, the hydrogen-dominated gas is filled to effectively prevent the oxidation and burning of contact points, and the contact resistance is low and stable
- 200A 85°C long time current carrying capacity
- In response to abnormal conditions, it can break 10 times of over current
- Insulation resistance up to 1000MΩ (1000VDC), dielectric withstand voltage meet IEC60664-1 requirement

Contact parameter					
contact type	1H				
Contact resistance	≤0.5mΩ (at 20A)				
Contact rated current	200A				
Max. switching voltage	750VDC				
Max. breaking current	2000A (300VDC), more than 1 cycle				
May switching nower	450V: 90kW				
Max. switching power	750V: 150kW				
	200A: keeping				
	250A: 15min				
Current carrying capacity	320A: 5min				
	600A: 30s				
	900A: 10s				

Note: Current carrying capacity data is tested at ambient temperature of 85°C, cross section≥60mm², more detail, please see curve.

Coil parameter						
Rated voltage VDC	Operational voltage VDC	Release voltage VDC	Coil power W			
12	≤9	≥1	6			
24	≤18	≥2	6			
—.			10000			

Note: The operational voltage and release voltage are conservative values in the full temperature range (-40°C ~ +85°C).

Environmental characteristics					
Shock		196m/s ²			
Strength		490m/s ²			
Vibration		10Hz ~ 500Hz 49m/s ²			
Humidity		5% ~ 85%RH			
Ambient temperature		-40°C ~ +85°C			
IP grade		IP67 (contact)			

Life					
Mechanical endurance		2×10⁵ ops			
		450V	750V		
	Capacitive	connect: 2×10 ⁴ (22.5VDC, τ=1ms) impact 400A, keep 200A	connect: 2×10 ⁴ (37.5VDC, τ=1ms) impact 400A, keep 200A		
Electricity endurance	Resistive	switch: 1×10 ³ ops (450VDC,200A)	switch: 500 ops (750VDC,200A)		
		switch: 500 ops (450VDC,-200A)	switch: 100 ops (750VDC,-200A)		
		breaking capacity: 1 ops (300VDC,2000A)	breaking capacity: 1 ops (300VDC,2000A)		

Note 1: Except for special notes, the ambient temperature of electrical durability test is 23°C and the on-break ratio is 0.6s:5.4s.

Note 2: When the relay is used to control the main circuit of charge and discharge, the pre-charge circuit should be added. If there is no pre-charging path, a transient large current will be generated when the relay closes, which may cause the relay to stick.

Electrical characteristics	1	No. of the Parket of the Parket		1
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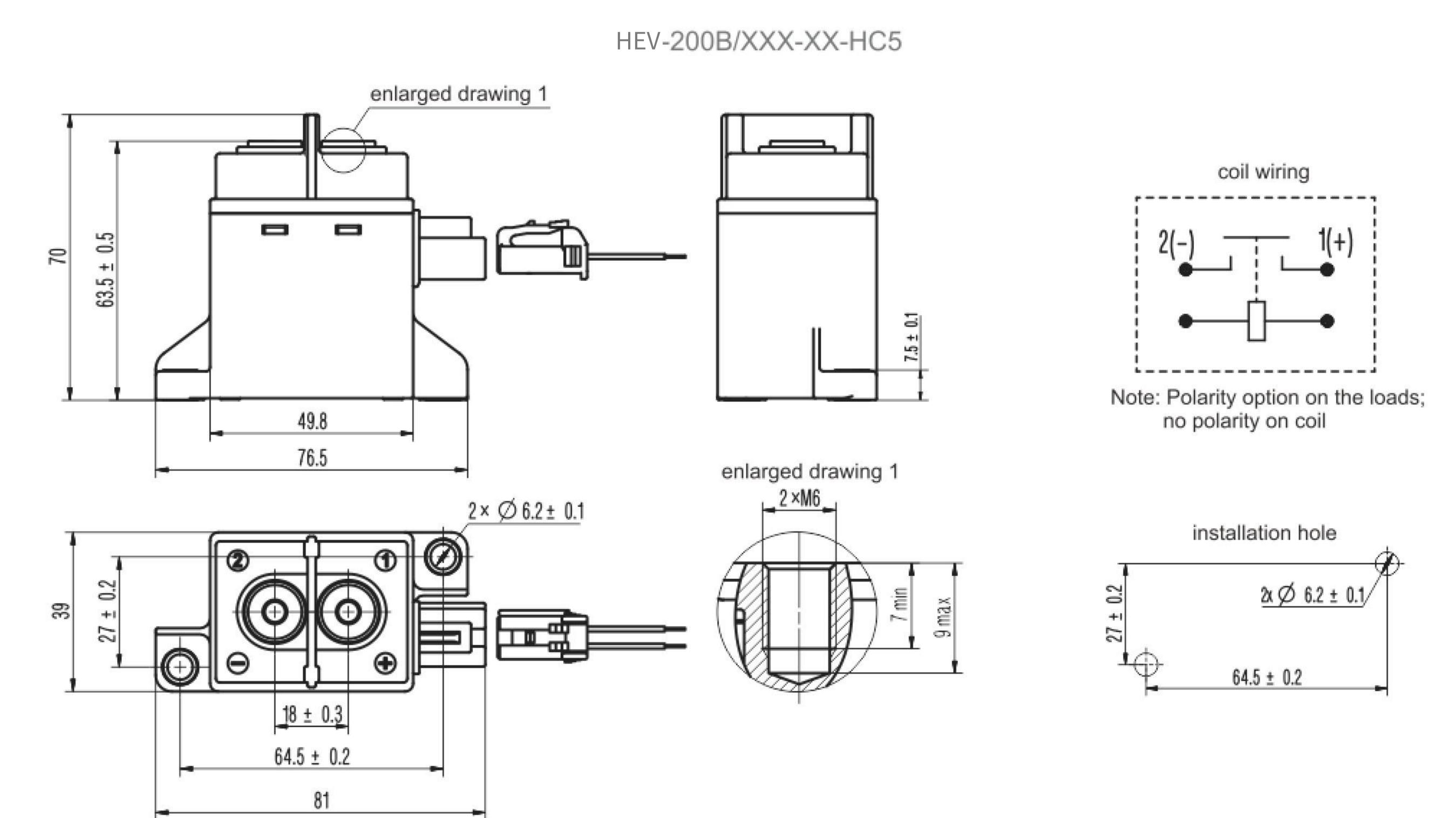
Insul	ation resistance	1000MΩ (1000VDC)		
Dielectric between contact and coil withstand		4000VAC 1min		
voltage	between open contacts	3000VAC 1min		
Operate time (a	at nomi. volt.)	≤30ms		
Release time (a	at nomi. volt.)	≤10ms		
Note: The data shown above are initial values.				

Other					
Terminal	M6 internal thread				
Mounting torque at load end	M6 5~6N · m				
Relay mounting torque	M5 3~4N · m				
Weight	≈350g				
Outline dimension	76.5mm×39.0mm×70.0mm				

Ordering B /750 -12 -H C 5 W XXX Design Code Application V: EV Load current 200:200A B: B Series Series Load voltage Nil: 450VDC 750: 750VDC Coil voltage 12: 12VDC 24: 24VDC Contact type H: With normally open C: Connector Coil input terminal Load input terminal 5: Internal thread Nil: Vertical mounting W: Horizontal mounting Mounting type XXX: Customer requirement Nil: Standard Customer No.

Note: The customer special requirement express as customer No. after evaluating between each party.

Outline, coil wiring , installation hole



Remark: In case of no tolerance shown in outline dimension: outline dimension≤10mm, tolerance should be ±0.3mm; outline dimension is between (10~50) mm, tolerance should be ±0.5mm; outline dimension ≥50mm, tolerance should be ±0.8mm.

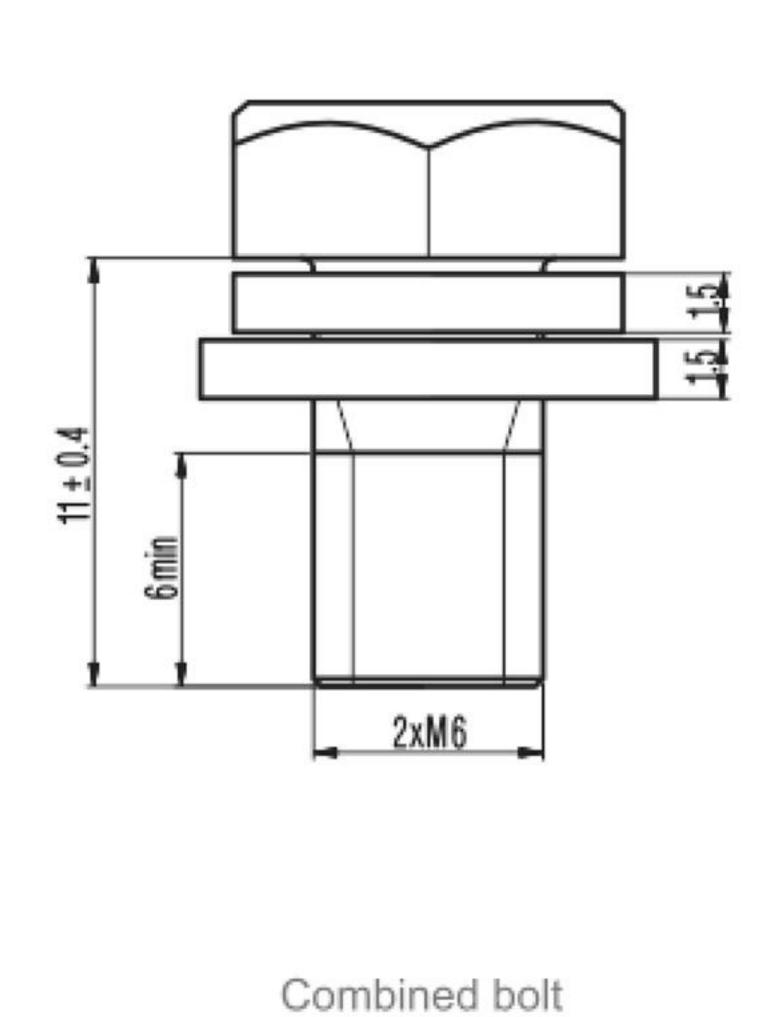
elehub°



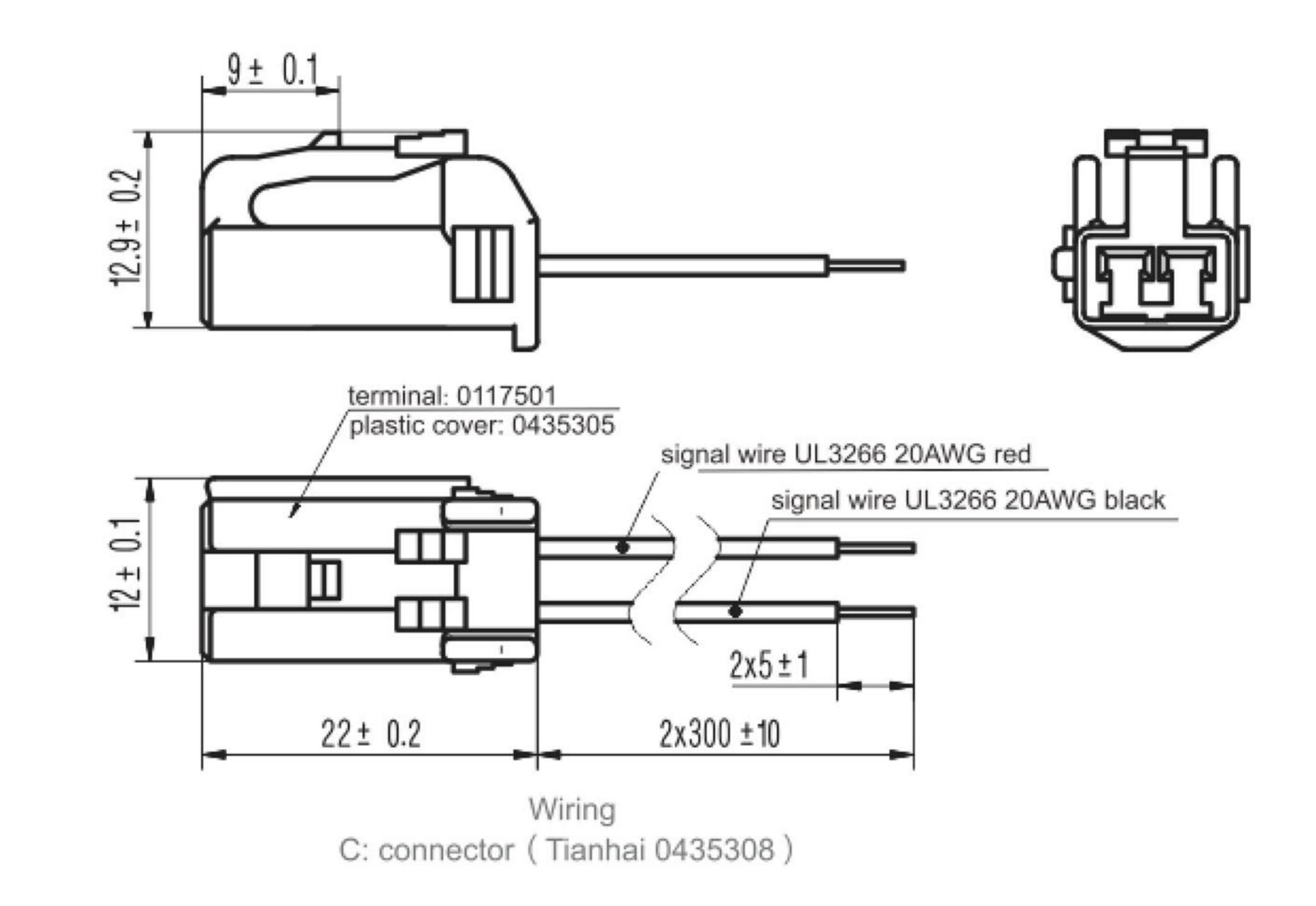
Combined bolt, connector

Unit: mm

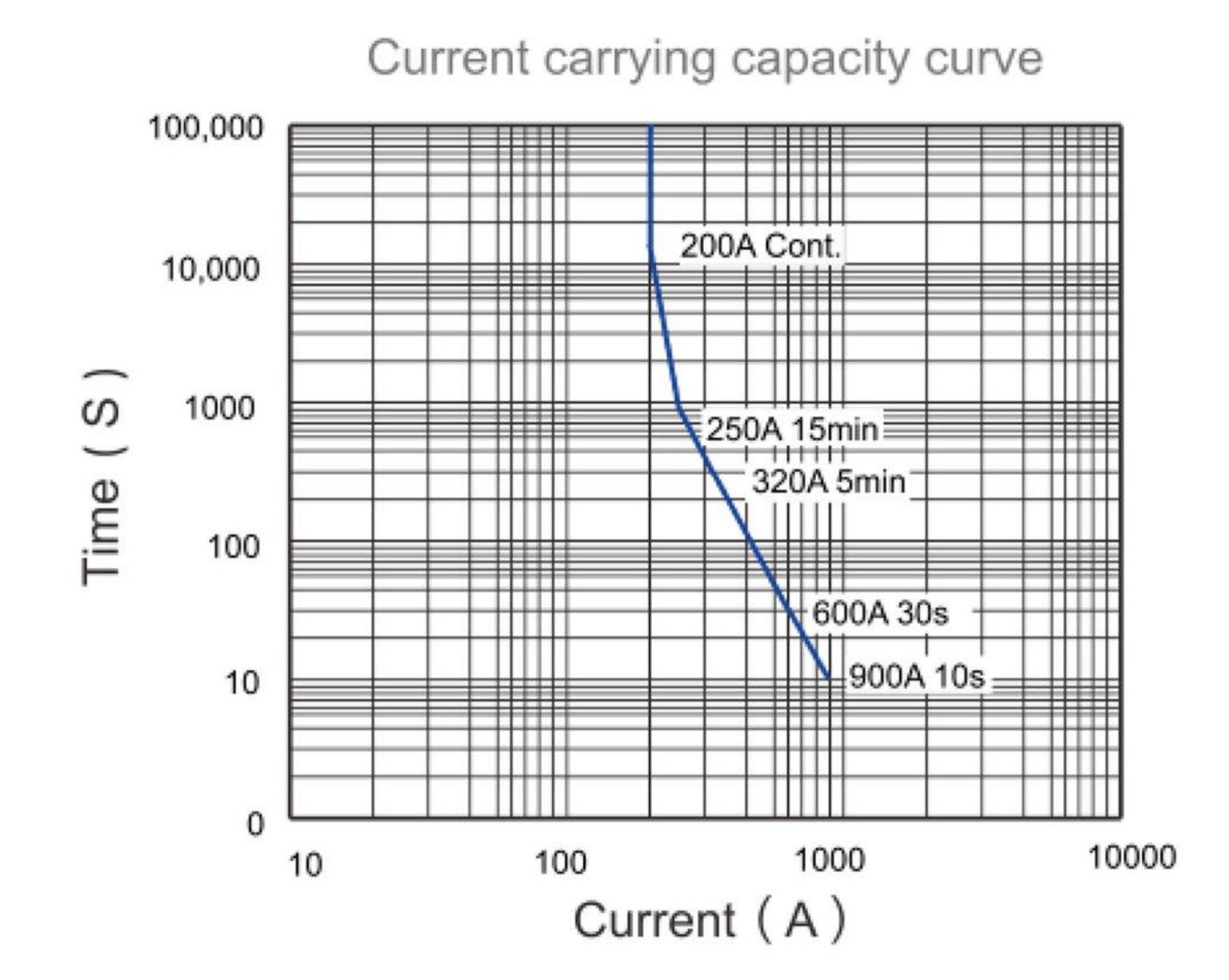
HEV-200-B



(optional)



Characteristic curve



Note: The data above is measured at the environment 85°C, with cross section area of wire ≥ 60mm². The data is only for reference and please do not use it for fuse selection.

Cautions

1. In case of loosening, please use washer when install the relay with M5 screw, and the torque within 3N · m~4N · m; The torque of fixing screw at terminals shall be within 5N·m~6N·m. The torque beyond the range may cause damage.

Installation for terminal with load			Relay	installation	
Installation way Torque Hole diameter of copper bar Thickness of copp		Thickness of copper bar	Installation way	Torque	
M6 bolt	5N · m~6N · m	∅6~∅6.5	2mm~3mm	M5 bolt	3N · m~4N · m

2. Please do not adhere foreign materials like oil on the terminals and please use the wire with cross section area 60mm² min, otherwise the terminal parts may have abnormal heating.

3. Cautions of relay installation: when use M5 screw, the thickness and strength of the washer needs to be guaranteed or it may deform and burst the cover.

HIGH VOLTAGE DC CONTACTOR