

FEATURE

- Ceramic brazing sealed technology guarantees no risk of arc leaking and ensures no fire or explosion
- Filled with gas (mostly hydrogen) to minimize contact oxidation and damage from arcing; contact resistance is low and stable; contact part can meet IP67 protection level.
- current 250A continuously at 85°C
- Insulation resistance is $1000M\Omega(1000Vd.c.)$, and dielectric strength between the coil and contacts is 2.6kV, which meets the requirements of IEC 60664-1
- Resistance to high levels of short circuit:10000A



APPLICATION

New energy vehicle , Charging point, Photovoltaic , Energy storage , Industrial power



CONTACT DATA

Contact Arrangement	1 Form A	
Contact Resistance	≤125 mV at 250 A	
Rated Load Current	250 A (@ 60 mm² wire)	
Rated Switching Voltage	450 Vd.c. or 750 Vd.c.	
Rated Switching Power	112.5kW(450Vd.c.)or187.5kW(750Vd.c.)	
Min. Applicable Load	6 Vd.c., 1 A	
Max. Switching Voltage	1000 Vd.c.	
Max. Switching Power	187.5kW(750 Vd.c.)	
Max. Breaking Current	3000 A (500 Vd.c.) 1op	



CHARACTERISTICS

Dielectric	Between coil & contacts	2600 Va.c 1 min	
strength	Between open contacts	2600 Va.c 1 min	
Insulation resistance		1000 MΩ at 1000 Vd.c.	
Operate time(at nomi. volt.)		≤30 ms	
Release time (at nomi. volt.)		≤10 ms	
Vibration resistance		10Hz~500Hz, 49 m/s²	
Shock resistance	Functional	Functional Open:98 m/s ² ; Functional Close:196 m/s ²	
	Destructive	490 m/s ²	
Ambient temperature		-40℃~85℃	
Humidity		5% RH ~85% RH	
Termination		M6Screw terminal male	
Mounting		M5Screw	
Unit weight		Approx.420g	
Outline Dimensions		Standard Type: 84.5mmx42.5mmx74.5mm Horizontal Type: 61.5mmx42.5mmx74.0mm	

Notes: Above is the initial vale in the room temperature

COIL

Coil power W	Nominal Voltage Vd.c.	Pick-up Voltage Vd.c.	Drop-out Voltage Vd.c.
6	12	≤9	≥1
6	24	≤18	≥2

Notes: The values above are conservative values within the temperature range(-40 $^{\circ}$ to 85 $^{\circ}$ C),



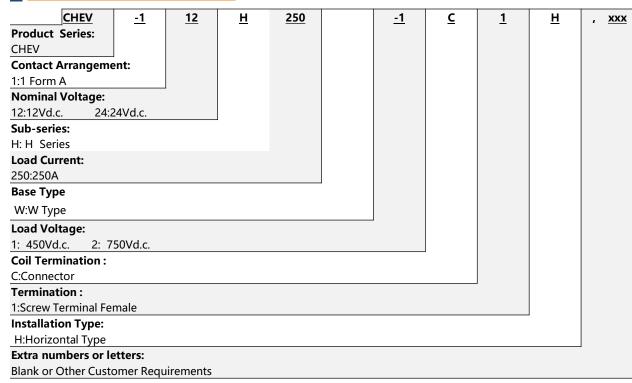
ENDURANCE

Project	450 Vd.c.	750 Vd.c.	
Electrical Endurance	Making:7.5×10 ⁴ ops (20 Vd.c. ,150A)	Making:7.5×10 ⁴ ops(20 Vd.c. ,150A)	
	Switching:2000ops (450 Vd.c. ,250A)	Switching:1000ops (750 Vd.c. ,250A)	
	Switching:2000ops (450 Vd.c. ,-250A)	Switching:1000ops (750 Vd.c. ,-250A)	
	Breaking:0.06s on 1op (500 Vd.c. ,3000A)	Breaking:0.06s on 1 op (750 Vd.c. ,2500A)	
	Breaking:0.06s on 1op (500 Vd.c.,-3000A)	Breaking:0.06s on 1 op (750 Vd.c., -2500A)	
Short Circuit Current	500Vd.c. 10000A t≤5ms (No Smoke, no Fire)		
	250A, Cont.		
	350A, 8r		
Current Endurance	500A, 2min		
	900A, 25s		
	1000A, 20s		
Mechanical endurance	2x10 ⁵ ops, on-off ratio:0.6s:5.4s		

Notes: (1) Until special statement, the temperature of electrical endurance is at 23 $^{\circ}\text{C}$ and the on-off ratio is 0.6s:5.4s.

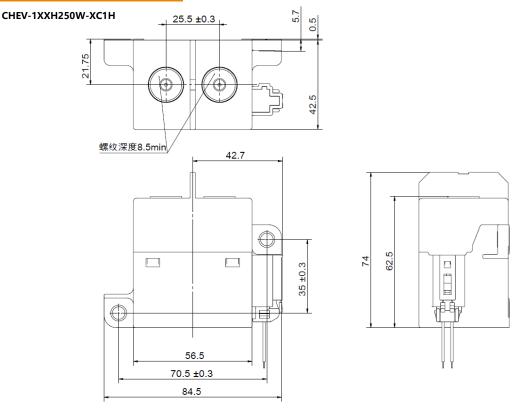


ORDERING INFORMATION



Notes: The customer special requirement express as special code after evaluating by Churod.

OUTLINE DIMENSIONS

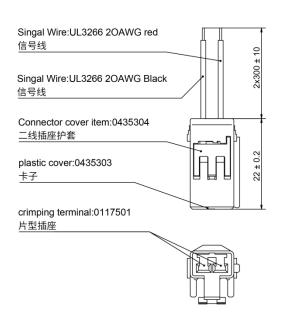


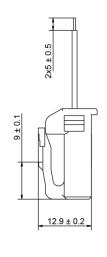
Remark: in case of no tolerance shown in outline dimension: outline dimension \leq 10mm; tolerance should be \pm 0.3mm, outline dimension >10mm and \leq 50mm, tolerance should be \pm 0.5mm, outline dimension>50mm, tolerance should be \pm 0.8mm.

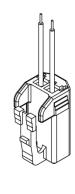


WIRING DIAGRAM

Wiring diagram C: connector (tianhai:0435308)



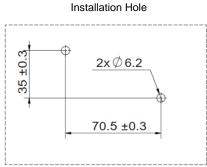




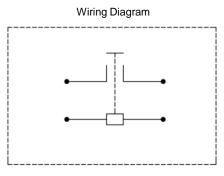
Note: With female connector: 配母端连接器

Tianhai: 0435308 or Yazaki: 7283-1020 天海:0435308或矢崎:7283-1020

INSTALLATION HOLE SIZE & WIRING DIAGRAM



CHEV-1XXH250W-XC1H



Note: No polarity on the load and coil





INSTALLATION INFORMATION

Load Terminal Installation				
Installation Mode	Selection Screw	Torque	Copper Busbar Diameter	Copper Busbar Thickness
M6 Screw	M6×12 Combined Bolt	6N·m ∼8N·m	ф 6.0 ~6.5 mm	2.0 ~3.0 mm

Relay Installation		
Installation Mode	Torque	
M5 Screw	3N·m ~4N·m	

(Optional) Ø 16 We will be a second of the second of the

Combined Bolt Drawing

Note:

- In order to prevent loosening, please use the washer when installing the relay.
- Please avoid grease and other foreign matter in the terminal, please use the connecting wire with a cross section area ≥ 60mm²,
 or they may cause abnormal heating in the terminal part.



The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change within notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query. Please contact Churod for the technical service. However, it is the user's responsibility to determine which product should be used only.