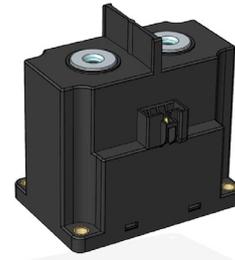


EVP Series

High voltage DC contactor

Feature

- ◆ Hermetically sealed with ceramic technology
- ◆ Allow for bi-directional load
- ◆ Breaking capacity at 1500VDC
- ◆ Dual coil design with hold power 5.0W
- ◆ Equipped with auxiliary contact
- ◆ Comply with DC-1 utilization category in IEC60947-4-1



Typical applications

Battery energy storage systems, Photovoltaic inverters, Megawatt EV DC charger

Performance Data

Parameter		Units	Value		
Model		/	EVP-250	EVP-350	EVP-600
Max. Breaking Voltage		VDC	1500		
Max. Breaking Capacity		/	1000VDC, 2000A, 1 cycle		
Rated Switching Current		V	250	350	600
Temporary overcurrent (10 min)		A	400	500	800
Temporary overcurrent (1 min)		A	550	650	1000
Contact Resistance		mΩ	0.4		
Electrical Endurance	100A,1500VDC, make/break, resistive	Ops	6000		
	200A,1500VDC, break only, resistive	Ops	2000		
	350A,1000VDC, break only, resistive	Ops	1000		
Dielectric Strength (static)	Between open main contacts	VAC	4400		
	Between main contact and coil	VAC	4400		
	Between main contacts and aux contacts	VAC	4400		
	Between open aux contacts	VAC	800		
Initial Insulation Resistance @ 1000VDC, Min.		Ω	10 ⁹		
Operate time max. (at 23℃)		ms	50		
Release time, max. (at 23℃)		ms	30		
Vibration Resistance(functional)		G	Sine, 10-2000Hz, 5G		
Shock Resistance(functional)		G	11ms 1/2 Sine, Peak 20G		
Ambient temperature		℃	-40~+85		
Auxiliary contact	Contact Form	/	1 Form A (SPST-NO)		
	Contact current, Max.	A	3A, 24VDC		
	Contact current, Min.	A	10mA, 24VDC		

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Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil power (W)
EVP-250	12	9	1.2	16	Start: 50W Hold: 5W
EVP-350					
EVP-600	24	18	2.4	32	Start: 50W Hold: 5W

Example of order marking

4 Example of order marking

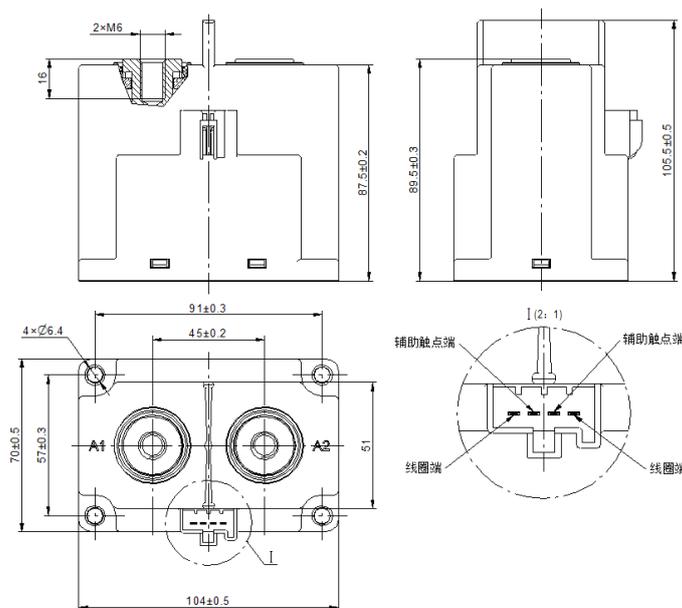
EV P - 250 A / 1500 - 12 C F 4 (XXX)

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① Product Model: EV
- ② Product Type: P
- ③ Series Code: 250: 250A
- ④ Contact form: A: 1 Form A
- ⑤ Load Voltage: 1000: 1000VDC、1500: 1500VDC
- ⑥ Nominal coil voltage: 12: 12VDC、24: 24VDC
- ⑦ Coil Lead-out Mode: C: Connector
- ⑧ With Auxiliary Contact Or Not: F: With Normally Open Auxiliary Contacts
- ⑨ Form Of Load Outlet: 4: Internal Thread、5: External Thread
- ⑩ Characteristics Code: Subject To Customer Requirements

Outline drawing

1) EVP-250、EVP-350



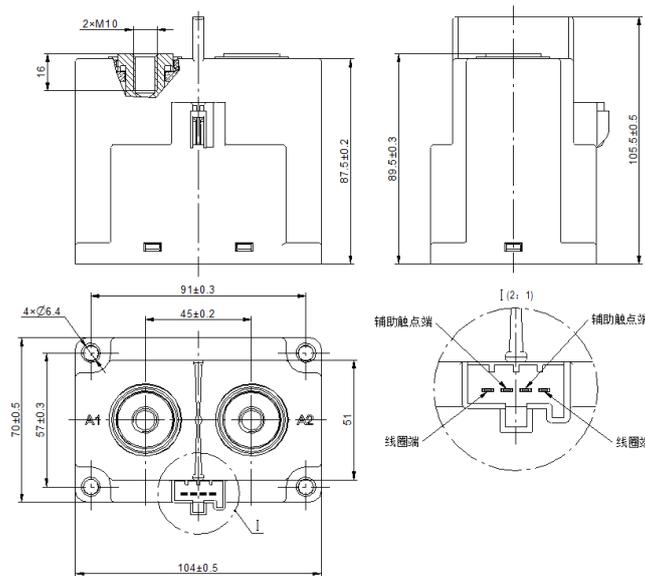
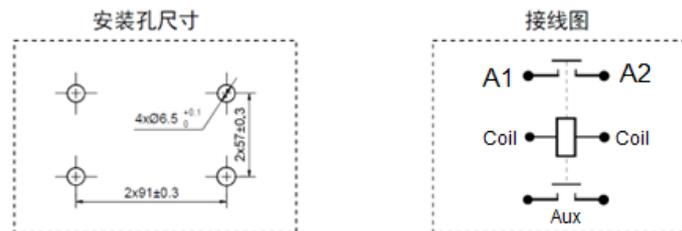
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2) EVP-600


Mounting hole/Wiring diagram

Precautions for use

- ※ When installing the product, the Torque of the fastening bolt should be kept within the specified range, exceeding the maximum value may cause the product to break.
- ※ Please connect according to the schematic diagram. When the wiring is wrong, it may cause accidental misoperation and abnormal heating. Please pay attention to it.
- ※ Avoid installing products in areas directly affected by rain, or in areas with a strong magnetic field, or near objects with heat radiation.
- ※ If the relay coil and contact of the relay continuously at rated voltage (or current), the power is switched on immediately after it was cut off, at this time because the coil temperature increases, the resistance of the coil increases, which makes the product pull-in voltage increase, then it may lead to exceed the rated pull-in voltage.
- ※ If applied to inductive load (I load) at the same time L/R > 1 ms, it is recommended that the inductive load be connected in parallel with a surge current protection device, otherwise, it may cause the product electrical life shortened, the main contact broken bad.
- ※ The drive circuit power of the product coil must be greater than the coil power of the product, otherwise the on-off ability of the product will be reduced.

⚠Statement:

The document is for customer reference only. Specifications and parameters may be changed due to product improvement. For the specific parameters and performance of each product, please refer to the specifications and samples provided by Mirelay without further notice.

Relay performance parameters in different application areas are different, so customers should choose the appropriate products according to the specific conditions of use, if in doubt, please contact Shanghai MiRelay Electronics Co.,Ltd. for more technical support.

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