

PUBLIC PRODUCT DATASHEET

EVI-250 High voltage DC Relay

High Voltage DC Contactor EVI-250 Epoxy Series is part of the High Voltage DC Contactor range from SHR MiRelay. This English public datasheet has been rebuilt under the current SHR AUTOSENSOR TECH LIMITED identity for customer selection, sample purchase and RFQ support.

Product Family High Voltage DC Contactor	Model High Voltage DC Contactor EVI-250 Epoxy Series	Purchase Path Sample order or RFQ confirmation
Manufacturer SHR AUTOSENSOR TECH LIMITED	Website www.reed-relay.com	Sales Contact sales@reed-relay.com
Contact Form 1 Form A	Rated Load 250	Contact Resistance ≤1 @20A
Insulation Resistance reaches 1000MΩ(1000VDC)	Release Time 10Max.	Operating Temperature deg C -40-+85

Key Features

- Special Epoxy seal, No arc leakage, protection class IP68
- Compact structure, low noise
- The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning
- 250A 85 deg C long time current carrying capacity
- The insulation resistance reaches 1000MΩ(1000VDC)
- an
- d meets the requirements of IEC60664-1

Technical Specifications

Parameter	Value
Contact Form	1 Form A
Rated Load	250
Contact Resistance	≤1 @20A
Insulation Resistance	reaches 1000MΩ(1000VDC)
Release Time	10Max.
Operating Temperature	deg C -40-+85
Mechanical Durability	3×10 ⁵
Electrical Endurance	2)

Specification Notes

EVI-250 High voltage DC Relay

1 Product Features

Special Epoxy seal, No arc leakage, protection class IP68

Compact structure, low noise

The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning

250A 85 deg C long time current carrying capacity

The insulation resistance reaches 1000M Ω (1000VDC)

and meets the requirements of IEC60664-1

2 Performance Data

Contact Form / 1 Form A

Contact Rated Load A 250

Mechanical Durability Ops 3 \times 10⁵

Max. Switching Voltage VDC 750

Max. Breaking Current / 2000A(320V DC) 1 times

Current Tolerance 1) / 320A: 10min; 500A: 1min; 2000A: 1s

Contact Resistance m Ω \leq 1 @20A

Operating Time (at rated voltage) ms 30Max.

Release Time (at rated voltage) ms 10Max.

Insulation Resistance M Ω 1000 (1000VDC)

Dielectric

Withstand

Voltage

Between Open Contacts / 3000VAC 50 Hz/60 Hz

Between Contacts and Coil / 3000VAC 50 Hz/60 Hz

Electrical Endurance 2)

250A 450VDC (DC-1) Ops 2 \times 10³

250A 750VDC (DC-1) Ops 1 \times 10³

Impact

Stability / 196m/s²

Strength / 490 m/s²

Vibration / 10Hz-500Hz 49 m/s²

Auxiliary

Contact

(On demand)

Form / NO

Rated Load / 2A/30VDC; 3A/125VAC

Min. Operating Voltage Current / 0.1A/8V

Operating Temp deg C -40-+85

Fumidity / 5%-85%RH

Form Of Load Outlet / Internal Thread/External Thread

Weight g 395

Outline Dimensions / Reference outline drawing

SHR SENSOR & RELAY

sales@reed-relay.com

Remark: 1) please refer to the attached figure "tolerance curve". 2) The on-off ratio is 0.6s: 5.4s. Please note that if the coil parallel diode is used, the release time of the relay will be greatly prolonged and the service life will be reduced.

3 Coil Parameters

Nominal Voltage(Us) 12V DC 24V DC

Operating Voltage Range $\pm 20\%Us$ $\pm 20\%Us$

Pickup Voltage 9Vmax 9Vmax

Dropout Voltage (4-7)V (4-7)V

Coil Power When switched on: 26W, When holding: 3W When switched on: 26W, When holding: 3W

4 Example of order marking

EV I-250 A■750 -A C F 5 (XXX)

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① Product Model: EV

② Product Type: I: Epoxy Sealed Type

③ Series Code: 250: 250A

Ordering & Engineering Support

For production projects, confirm coil voltage, contact form, switching voltage/current, load type, operating environment, target quantity and required approvals before release. Contact sales@reed-relay.com or +86 137 6157 1029 for datasheet confirmation, sample availability and cross-reference support.

Address: Room 311, No. 18 Hangchuan Road, Pudong New District, Shanghai, China

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