

PUBLIC PRODUCT DATASHEET

EVM-200 High voltage DC Relay

EVM-200 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 EVM-200	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 200	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, Make sure no fire or burst
- Compact structure, low noise
- The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning
- 200A 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	200
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

EVM-200 High voltage DC Relay

1 Product Features

Special Epoxy seal, No arc leakage, Make sure no fire or burst

Compact structure, low noise

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contact from oxidation and burning

200A 85 deg C long time current carrying capacity

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2 Performance Data

Contact Form / 1 Form A

Contact Rated Load A 200

Mechanical Durability Ops 3 \times 10⁵

Max. Switching Voltage VDC 1000

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

Current Tolerance 1) / 300A: 60min; 800A: 30s; 2000A: 0.6s

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 / 4000VAC 50 Hz/60 Hz

Electrical Endurance 2)

200A 450VDC (DC-1) Ops 3 \times 10³

200A 750VDC (DC-1) Ops 1 \times 10³

Impact

Stability / 196m/s²

Strength / 490 m/s²

Vibration / 10Hz-500Hz 49 m/s²

Operating Temp deg C -40--+85

Fumidity / 5%-85%RH

Form Of Load Outlet / Internal Thread/External Thread

Weight g 500

Outline Dimensions / Reference outline drawing

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. r

SHR SENSOR & RELAY

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3 Coil Parameters

Nominal Voltage(Us) 12V DC 24V DC

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

Pickup Voltage 9Vmax 18Vmax

Dropout Voltage (1-5)V (2-9)V

Coil Power When switched on: 34W, When holding: 4W ` When switched on: 34W, When holding: 4W

4 Example of order marking

EV M-200 A■750 -12 C F 5 (XXX)

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① Product Model: EV

② Product Type: M: Ceramic Sealed Type

③ Contact form: A: 1 Form A

④ Series Code: 200: 200A

⑤ Load Voltage: Blank: 450VDC; 750: 750VDC

⑥ Nominal coil voltage: 12: 12VDC; 24: 24VDC.....

⑦ Coil Lead-out Mode: Blank: None – Stripped Wires; C: Connector

⑧ With Auxiliary Contact Or Not: Blank: Without; F: With Normally Open Auxiliary Contacts

⑨ Form Of Load Outlet: 4: Internal Thread; 5: External Thread

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.

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