

## PUBLIC PRODUCT DATASHEET

# EVI-300 High voltage DC Relay

**High Voltage DC Contactor EVI-300 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.

<b>Product Family</b> High Voltage DC Contactor	<b>Model</b> High Voltage DC Contactor EVI-300 Epoxy Series	<b>Purchase Path</b> Sample order or RFQ confirmation
<b>Manufacturer</b> SHR AUTOSENSOR TECH LIMITED	<b>Website</b> www.reed-relay.com	<b>Sales Contact</b> sales@reed-relay.com
<b>Contact Form</b> 1 Form A	<b>Rated Load</b> 300	<b>Contact Resistance</b> ≤1 @20A
<b>Insulation Resistance</b> reaches 1000MΩ(1000VDC)	<b>Release Time</b> 10Max.	<b>Operating Temperature</b> 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
- 300A 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	300
Contact Resistance	≤1 @20A
Insulation Resistance	reaches 1000MΩ(1000VDC)
Release Time	10Max.
Operating Temperature	deg C -40-+85
Mechanical Durability	3×10 <sup>5</sup>
Electrical Endurance	2)

## Specification Notes

EVI-300 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

300A 85 deg C long time current carrying capacity

The insulation resistance reaches 1000M $\Omega$ (1000VDC)

d meets the requirements of IEC60664-1

## 2 Performance Data

Contact Form / 1 Form A

Contact Rated Load A 300

Mechanical Durability Ops 3 $\times$ 10<sup>5</sup>

Max. Switching Voltage VDC 750

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

Current Tolerance 1) / 450A: 10min; 600A: 1min; 2000A: 1s

Contact Resistance m $\Omega$   $\leq$ 1 @20A

Operating Time (at rated voltage) ms 30Max.

Release Time (at rated voltage) ms 10Max.

Insulation Resistance M $\Omega$  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)

300A 450VDC (DC-1) Ops 1.5 $\times$ 10<sup>3</sup>

300A 750VDC (DC-1) Ops 0.7 $\times$ 10<sup>3</sup>

Impact

Stability / 196m/s<sup>2</sup>

Strength / 490 m/s<sup>2</sup>

Vibration / 10Hz-500Hz 49 m/s<sup>2</sup>

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-300 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: 300: 300A

## 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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