PUBLIC PRODUCT DATASHEET

ESM-350 High voltage DC Relay

High Voltage DC Contactor ESM-350 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 ESM-350 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** 350	**Contact Resistance** <10
Insulation Resistance reaches 1000MΩ(1500VDC)	**Release Time** ≤15	**Operating Temperature** deg C -40-+85

Key Features

- Ceramic Brazing seal,No arc leakage; designed to prevent fire and burst risk
- Compact structure,low noise
- The mixed gas mainly filled with hydrogen can prevent the
- contact from oxidation and burning
- 350A 85 deg C long time current carrying capacity
- The insulation resistance reaches 1000MΩ(1500VDC)
- nd meets the requirements of IEC60664-1

Technical Specifications

Parameter	Value
Contact Form	1 Form A
Rated Load	350
Contact Resistance	<10
Insulation Resistance	reaches 1000MΩ(1500VDC)
Release Time	≤15
Operating Temperature	deg C -40-+85
Mechanical Durability	3×105
Electrical Endurance	2)

Specification Notes

ESM-350 High voltage DC Relay

1 Product Features

Ceramic Brazing seal,No arc leakage; designed to prevent fire and burst risk

Compact structure,low noise

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contact from oxidation and burning

350A 85 deg C long time current carrying capacity

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2 Performance Data

Contact Form / 1 Form A

Contact Rated Load A 350

Mechanical Durability Ops 3×105

Max. Switching Voltage VDC 1500

Max. Breaking Current / 2000A(1000V DC) 1 times

Current Tolerance 1) / 500A: 10min; 1500A: 15s; 4000A: 3s

Contact Resistance mΩ <10

Operating Time (at rated voltage) ms ≤40

Release Time (at rated voltage) ms ≤15

Insulation Resistance MΩ 1000 (1500VDC)

Dielectric

Withstand

Voltage

Between Open Contacts / 4000VAC 50 Hz/60 Hz

Between Contacts and Coil / 4000VAC 50 Hz/60 Hz

Electrical Endurance 2)

150A 1500VDC (Break) Ops 3×103

350A 1000VDC (Break) Ops 1×103

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

Weight g 1080

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 (10-32)V DC (36-66)V DC

Operating Voltage Range ±20%Us ±20%Us ±10%Us ±10%Us

Pickup Voltage 9.6Vmax 19Vmax 9Vmax 32 Vmax

Dropout Voltage 12Vmin 2.4min 4Vmin 12Vmin

Coil Power When switched on: 50W,

When holding: 5W

When switched on: 50W,

When switched on: 34W,

When holding: 3W

When switched on: 42W,

When holding:3W

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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