

Solid-state relay module - EMG 17-OV- 24DC/ 60DC/3 - 2954154

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Power solid-state relay, with LED and protective circuit in input and output circuits, input: 24 V DC, output: 12 - 60 V DC/max. 3 A

The figure shows version EMG 17-OV, with DC voltage output, max. 3 A



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 10 STK |
| GTIN |  4 017918 084813 |
| GTIN | 4017918084813 |

Technical data

Note

| | |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

Dimensions

| | |
|--------|---------|
| Width | 17.5 mm |
| Height | 75 mm |
| Depth | 102 mm |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |
| Degree of protection | IP20 |

Input data

| | |
|---|-------------------------|
| Nominal input voltage U_N | 24 V DC |
| Input voltage range in reference to U_N | 0.8 ... 1.2 |
| Input voltage range | 19.2 V DC ... 28.8 V DC |

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Input data

| | |
|---|-----------------------------|
| Switching threshold "0" signal in reference to U _N | ≤ 0.4 |
| Switching threshold "1" signal in reference to U _N | ≥ 0.8 |
| Typical input current at U _N | 7 mA |
| Typical response time | 20 μs |
| Typical turn-off time | 200 μs |
| Status display | Yellow LED |
| Type of protection | Reverse polarity protection |
| | Surge protection |
| Protective circuit/component | Polarity protection diode |
| Transmission frequency | 500 Hz |
| Power dissipation for nominal condition | 0.17 W |

Output data

| | |
|--|-----------------------------|
| Output nominal voltage | 60 V DC |
| Output voltage range | 12 V DC ... 60 V DC |
| Limiting continuous current | 3 A (see derating curve) |
| Peak offstate voltage | 60 V DC |
| Voltage drop at max. limiting continuous current | 1.2 V |
| Output circuit | 2-wire, floating |
| Type of protection | Reverse polarity protection |
| | Surge protection |
| Protective circuit/component | Polarity protection diode |

Connection data, input side

| | |
|----------------------------------|---|
| Connection name | Input side |
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section solid | 0.2 mm ² ... 4 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 12 |

Connection data, output side

| | |
|----------------------------------|---|
| Connection name | Output side |
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section solid | 0.2 mm ² ... 4 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 12 |

General

| | |
|---------------------------|-----------|
| Test voltage input/output | 3.5 kV AC |
|---------------------------|-----------|

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General

| | |
|--|---------------------------|
| | 3.5 kV AC |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |
| Operating mode | 100% operating factor |
| Flammability rating according to UL 94 | V0 |
| Standards/regulations | IEC 60664 |
| | EN 50178 |

Standards and Regulations

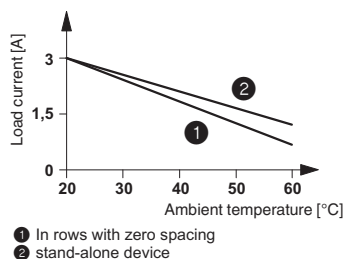
| | |
|--|------------------|
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| Insulation | Basic insulation |
| Flammability rating according to UL 94 | V0 |

Environmental Product Compliance

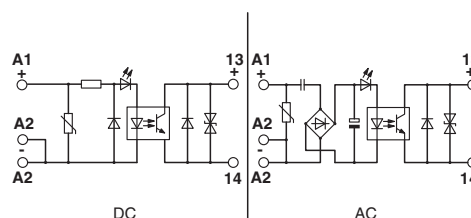
| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Diagram



Circuit diagram



Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

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Approvals

EAC



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