

Solid-state relay module - EMG 17-OV- 60DC/ 24DC/2 - 2946816

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Power solid-state relay, with LED and protective circuit in input and output circuits, input: 48 - 60 V DC, output: short-circuit-proof, 10 - 30 V DC/max. 2 A

The illustration shows version EMG 17-OV, with short-circuit proof DC voltage output, max. 2 A

Product Features

- Protective circuit in input and output
- EMG-17-OV, short-circuit-proof with indicator LED
- RC protective circuit
- Electrical isolation
- Zero voltage switch
- Status indicator
- Direct control with switching levels from 5 V to 230 V and up to 2 A



Key commercial data

| | |
|----------------------|----------|
| Packing unit | 1 pc |
| Custom tariff number | 85364190 |
| Country of origin | Germany |

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 |

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Dimensions

| | |
|-------|--------|
| 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 | 60 V DC |
| Input voltage range in reference to U_N | 0.64 ... 1.2 |
| Switching threshold "0" signal in reference to U_N | ≤ 0.32 |
| Switching threshold "1" signal in reference to U_N | ≥ 0.64 |
| Typical input current at U_N | 2.1 mA |
| Typical response time | 130 μ s |
| Typical turn-off time | 180 μ s |
| Status display | Yellow LED |
| Type of protection | Protection against polarity reversal |
| | Surge protection |
| Protective circuit/component | Polarity protection diode |
| | Varistor |
| Transmission frequency | 1000 Hz |

Output data

| | |
|--------------------------------------------------|---------------------------------------------|
| Output nominal voltage | 24 V DC |
| Output voltage range | 10 V DC ... 30 V DC |
| Limiting continuous current | 2 A (see derating curve) |
| Leakage current | 150 μ A |
| Peak offstate voltage | 33 V DC (Collector-emitter reverse voltage) |
| Current limitation at short-circuits | > 2 A (short-circuit resistant) |
| Voltage drop at max. limiting continuous current | ≤ 0.3 V |
| Output circuit | 3-conductor, ground-referenced |
| Indication | Red LED |
| Type of protection | Protection against polarity reversal |
| | Free running |
| | Surge protection |
| Protective circuit/component | Polarity protection diode |
| | Damping diode |
| | Suppressor diode |

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Technical data

Connection data

| | |
|----------------------------------------|---------------------|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 4 mm ² |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 12 |

General

| | |
|-----------------------------------------|---------------------------|
| Test voltage input/output | 2.5 kV AC |
| | 2.5 kV AC |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |
| Operating mode | 100% operating factor |
| Inflammability class according to UL 94 | V0 |
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| | IEC 62103 |
| Rated surge voltage / insulation | Basic insulation |
| Pollution degree | 2 |
| Surge voltage category | III |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27371001 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001504 |
| ETIM 3.0 | EC001504 |

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Classifications

ETIM

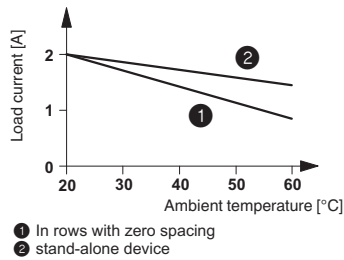
| | |
|----------|----------|
| ETIM 4.0 | EC001504 |
| ETIM 5.0 | EC001504 |

UNSPSC

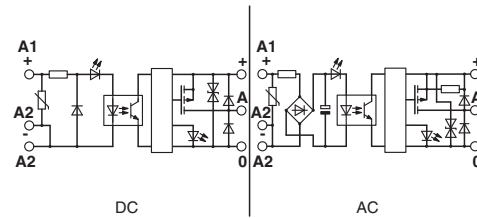
| | |
|---------------|----------|
| UNSPSC 6.01 | 30211916 |
| UNSPSC 7.0901 | 39121542 |
| UNSPSC 11 | 39121542 |
| UNSPSC 12.01 | 39121542 |
| UNSPSC 13.2 | 39121542 |

Drawings

Diagram



Circuit diagram



Circuit diagram

