

Relay Module - EMG 45-REL/IR-W230/HWR - 2952185

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Relay module, with soldered-in industrial relay, contact: 2 PDTs, for multi-input fault warnings, with input diode array in P polarity (6 diodes 1N4007) and capacitor parallel to the coil as well as a multi-input light indicator, input voltage 230 V AC

The illustration shows version EMG 45-REL/IR-G 24/HWR



Key commercial data

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 017918 084356 |
| Weight per Piece (excluding packing) | 130.64 GRM |
| Custom tariff number | 85364900 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|--------|---------|
| Width | 45 mm |
| Height | 75 mm |
| Depth | 82.5 mm |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -20 °C ... 50 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

Coil side

| | |
|---|---------------|
| Nominal input voltage U_N | 230 V AC |
| Input voltage range in reference to U_N | 0.9 ... 1.1 |
| Typical input current at U_N | approx. 16 mA |

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Coil side

| | |
|------------------------------------|-------------------------------------|
| Typical response time | 5 ms ... 15 ms |
| Typical release time range | 15 ms ... 25 ms |
| Coil resistance | 19.5 kΩ |
| Nominal power consumption | approx. 1 VA |
| Operating voltage display | LED red |
| Protective circuit | Decoupling diodes Decoupling diodes |
| | Capacitor Capacitor |
| Diode type | 1 N 4007 |
| Max. operating voltage of diodes | 250 V AC |
| Peak reverse voltage per diode | 1300 V |
| Reverse current per diode | 30 μA |
| Conducting state voltage per diode | approx. 0.8 V |
| Conducting state current per diode | 0.7 A (with single load) |
| | 0.2 A (with simultaneous loads) |

Contact side

| | |
|---------------------------------------|-----------------------|
| Contact type | Single contact, 2-PDT |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC |
| | 110 V DC |
| Maximum inrush current | 5 A |
| Limiting continuous current | 3 A |
| Interrupting rating (ohmic load) max. | 750 VA |

General

| | |
|--|---|
| Type of note | Notes on operation |
| Note | During installation, the system must be connected in phase. |
| Test voltage relay winding/relay contact | 2 kV AC (50 Hz, 1 min.) |
| Mechanical service life | > 10 ⁷ cycles |
| Standards/regulations | DIN VDE 0110b, Gr. C for 250 V DC |
| | DIN EN 50178/DIN VDE 0160 (in relevant parts) |
| Pollution degree | 2 |
| Surge voltage category | II |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |

Connection data

| | |
|-------------------|------------------|
| Connection method | Screw connection |
| Stripping length | 8 mm |

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Connection data

| | |
|--|---------------------|
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 4 mm ² |
| Conductor cross section AWG/kcmil max | 12 |
| Conductor cross section AWG/kcmil min. | 24 |
| Screw thread | M3 |

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 | EC000196 |
| ETIM 3.0 | EC000196 |
| ETIM 4.0 | EC000196 |
| ETIM 5.0 | EC000196 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11 | 39121515 |
| UNSPSC 12.01 | 39121515 |
| UNSPSC 13.2 | 39121515 |

Drawings

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Circuit diagram

