

# 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



## Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 5 pc                                                                                                    |
| GTIN                                 | <br>4 017918 084356 |
| GTIN                                 | 4017918084356                                                                                           |
| Weight per Piece (excluding packing) | 125.660 g                                                                                               |
| 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     |
| Mains frequency                           | 50/60 Hz        |
| Typical input current at $U_N$            | approx. 16 mA   |
| Typical response time                     | 5 ms ... 15 ms  |
| Typical release time range                | 15 ms ... 25 ms |

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## Technical data

### Coil side

|                                         |                                     |
|-----------------------------------------|-------------------------------------|
| Protective circuit                      | Decoupling diodes Decoupling diodes |
|                                         | Capacitor Capacitor                 |
| Operating voltage display               | LED red                             |
| Coil resistance                         | 19.5 kΩ                             |
| Nominal power consumption               | approx. 1 VA                        |
| Power dissipation for nominal condition | 3.68 W                              |

### Contact side

|                                       |                       |
|---------------------------------------|-----------------------|
| Contact type                          | Single contact, 2-PDT |
| Type of switch contact                | Single contact        |
| 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 <sup>7</sup> cycles                                    |
| Mounting position                        | any                                                         |
| Assembly instructions                    | In rows with zero spacing                                   |

### Connection data input side

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

### Connection data output side

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

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## Technical data

### Standards and Regulations

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Standards/regulations | DIN VDE 0110b, Gr. C for 250 V DC             |
|                       | DIN EN 50178/DIN VDE 0160 (in relevant parts) |
| Degree of pollution   | 2                                             |
| Overvoltage category  | II                                            |

### 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" |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27371601 |
| eCl@ss 5.1 | 27371600 |
| eCl@ss 6.0 | 27371600 |
| eCl@ss 7.0 | 27371601 |
| eCl@ss 8.0 | 27371601 |
| eCl@ss 9.0 | 27371601 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001437 |
| ETIM 3.0 | EC001437 |
| ETIM 4.0 | EC001437 |
| ETIM 5.0 | EC001437 |
| ETIM 6.0 | EC001437 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11     | 39121515 |
| UNSPSC 12.01  | 39121515 |
| UNSPSC 13.2   | 39122334 |

## Approvals

### Approvals

Approvals

EAC

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### Approvals

Ex Approvals

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#### Approval details

EAC



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DE.A\*30.B.01082