

# 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

package_quantity	5
GTIN	4017918084356

## 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
Nominal input current at $U_{IN}$	approx. 16 mA
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
Protective circuit	Capacitor Capacitor
Diode type	1 N 4007
Max. operating voltage of diodes	250 V AC
Peak reverse voltage per diode	1300 V

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## Technical data

### Coil side

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)
Conducting state current per diode	0.2 A (with simultaneous loads)

### Contact side

Contact type	Single contact, 2-PDT
Contact material	AgNi
Maximum switching voltage	250 V AC
Maximum switching voltage	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
Standards/regulations	DIN VDE 0110b, Gr. C for 250 V DC
Standards/regulations	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
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	8 mm
Screw thread	M3

## classifications

### eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001

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## classifications

### eCl@ss

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

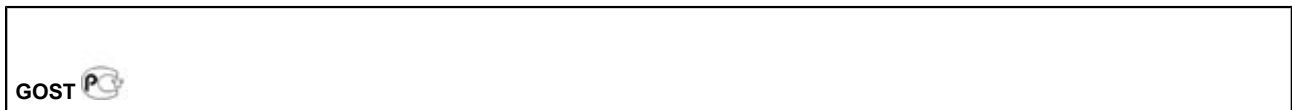
## approvals

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### Approval details



## Drawings

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Circuit diagram

