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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 <sub>N</sub>	230 V AC
Input voltage range in reference to U <sub>N</sub>	0.9 1.1
Typical input current at U <sub>N</sub>	approx. 16 mA



## Technical data

#### 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 <sup>7</sup> 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	П
Mounting position	any
Assembly instructions	In rows with zero spacing

#### Connection data

Connection method	Screw connection
Stripping length	8 mm



## Technical data

#### Connection data

Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
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

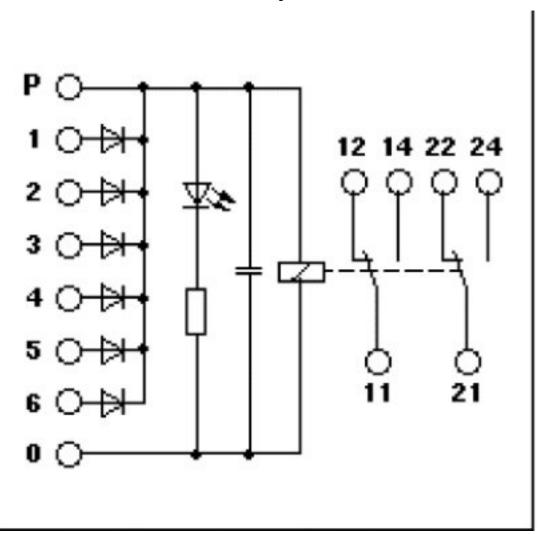
### UNSPSC

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

## Drawings







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