

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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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 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

