

EMG 45-REL/IR-G 24/HWR - Relay module



2952172

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Relay module, with soldered-in industrial relay, contact: 2 changeover contacts, for multi-input fault signals, with input diode gate in P-polarity (6 diodes 1N4007) and capacitor parallel to the coil as well as a multi-input LED display, input voltage 24 V DC

Commercial data

Item number	2952172
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	CK6147
Catalog page	Page 117 (IF-2005)
GTIN	4017918084349
Weight per piece (including packing)	128.8 g
Weight per piece (excluding packing)	128.8 g
Customs tariff number	85364190
Country of origin	DE

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Technical data

Product properties

Product type	Relay Module
Application	Fault reporting system
Mechanical service life	$> 10^7$ cycles

Data management status

Date of last data management	20.04.2023
Article revision	11

Insulation characteristics

Overvoltage category	II
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	0.74 W
Test voltage (Winding/contact)	2 kV AC (50 Hz, 1 min., winding/contact)

Input data

Diode

Description of the input	6 diodes, with P polarity
Diode type	1 N 4007
Max. operating voltage U_{max}	250 V AC
Peak reverse voltage per diode	1300 V
Reverse current per diode	30 μ A
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)

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range	20.4 V DC ... 26.4 V DC
Input voltage range in reference to U_N	0.85 ... 1.1
Drive and function	monostable
Typical input current at U_N	approx. 31 mA
Typical response time	approx. 14 ms
Typical release time	approx. 16 ms
Protective circuit	Decoupling diodes; Decoupling diodes Capacitor; Capacitor
Operating voltage display	LED red
Coil resistance	777 Ω
Nominal power consumption	approx. 740 mW

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Output data

Switching

Contact switching type	Single contact, 2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Limiting continuous current	3 A
Maximum inrush current	5 A
Interrupting rating (ohmic load) max.	750 VA

Connection data

Coil side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

Contact side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

Dimensions

Width	45 mm
Height	75 mm
Depth	82.5 mm

Material specifications

Color	green (RAL 6021)
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Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

Standards/regulations	DIN VDE 0110b, Gr. C for 250 V DC
	DIN EN 50178/VDE 0160 (in relevant parts)

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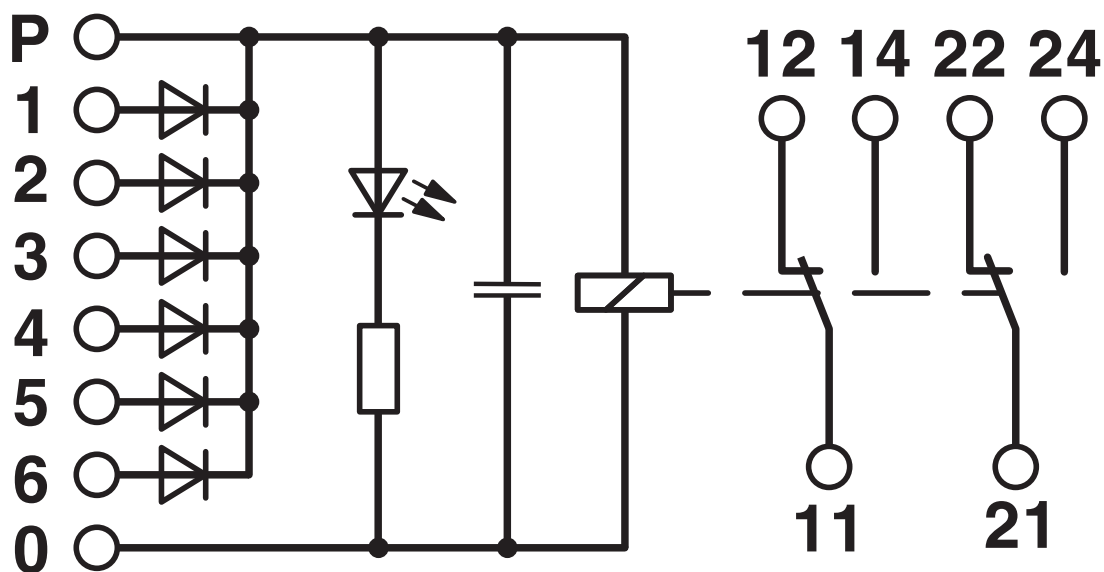
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Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

Drawings

Circuit diagram



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Classifications

ECLASS

ECLASS-11.0	27371601
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UNSPSC

UNSPSC 21.0	39122334
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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