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EMG 12-REL/KSR- 24/1 - Relay module

2949240

https://www.phoenixcontact.com/pc/products/2949240

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Relay module, with soldered-in miniature switching relay, contact (AgNi): Medium to large loads, 1 N/O contact, 24 V AC/DC input voltage

Commercial data

Item number	2949240
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	DK61C2
GTIN	4017918083748
Weight per piece (including packing)	44.42 g
Weight per piece (excluding packing)	44.42 g
Customs tariff number	85364190
Country of origin	DE

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Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area

Product properties

Product type	Relay Module
Operating mode	100% operating factor
Mechanical service life	approx. 2x 10^7 cycles

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	02.05.2024

Electrical properties

Maximum power dissipation for nominal condition	0.55 W
Test voltage (Winding/contact)	4 kV (50 Hz, 1 min., winding/contact)

Air clearances and creepage distances between the power circuits

Rated insulation voltage	260 V AC
Rated surge voltage	4 kV

Input data

Coil side

Nominal input voltage U_N	24 V AC/DC
Input voltage range	19.2 V AC/DC ... 26.4 V AC/DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U_N	21 mA
Typical response time	7 ms
Typical release time	11 ms
Protective circuit	Bridge rectifier
Status display	LED (yellow)

Output data

Switching

Contact switching type	1 N/O contact
Type of switch contact	Single contact

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Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V
Limiting continuous current	6 A
Maximum inrush current	8 A
Min. switching current	100 mA
Interrupting rating (ohmic load) max.	140 W (24 V DC)
	60 W (48 V DC)
	45 W (60 V DC)
	35 W (110 V DC)
	55 W (220 V DC)
	1500 VA (250 V AC)

Connection data

Connection method	Screw connection
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	12 mm
Height	65.5 mm
Depth	75 mm

Material specifications

Color	green (RAL 6021)

Environmental and real-life conditions

Ambient conditions

Degree of protection (Relay)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-20 °C ... 40 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	DIN EN 50178

Mounting

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

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/2949240

EAC
Approval ID: RU*C-DE.*08.B.00010

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Classifications

ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

ETIM

ETIM 9.0	EC001437

UNSPSC

UNSPSC 21.0	39122300

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 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)
SCIP	9e91fe4c-af8a-4dc6-8f58-d94cfc5a3367

EF3.0 Climate Change

CO2e kg	0.235 kg CO2e

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