

EMG 90-REL/MR-G220/6X 1/SO115 - Relay module



2301888

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Customer-specific relay module, 6 N/O contacts, 220 V DC input voltage

Commercial data

Item number	2301888
Packing unit	5 pc
Minimum order quantity	25 pc
Product key	DK61Y1
GTIN	4017918960933
Weight per piece (including packing)	200.07 g
Weight per piece (excluding packing)	200.07 g
Country of origin	DE

Technical data

Product properties

Product type	Relay Module
Mechanical service life	3x 10 ⁷ cycles

Insulation characteristics: Air clearances and creepage distances, input/output

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Insulation characteristics: Air and creepage distances, output/output

Insulation	Functional insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	12.09.2025
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Electrical properties

Air clearances and creepage distances, input/output

Rated insulation voltage	260 V
Rated surge voltage	2.3 kV (1.2/50 µs)

Air and creepage distances, output/output

Rated insulation voltage	260 V
Rated surge voltage	2.3 kV (1.2/50 µs)

Input data

Coil side

Nominal input voltage U_N	220 V DC
Input voltage range	176 V DC ... 242 V DC (20 °C)
Typical input current at U_N	4 mA
Typical response time	9 ms
Typical release time	10 ms
Protective circuit	Free-wheeling diode, polarity protection diode, resistor

Output data

Switching

Contact switching type	Single contact, 6 N/O contacts
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Limiting continuous current	6 A
	140 W (at 24 V DC)

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Interrupting rating (ohmic load) max.	85 W (at 48 V DC)
	60 W (at 60 V DC)
	44 W (at 110 V DC)
	57 W (at 220 V DC)
	1500 VA (for 250 V AC)

Connection data

Coil side

Connection method	Screw connection
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12

Contact side

Connection method	Screw connection
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12

Dimensions

Width	90 mm
Height	75 mm
Depth	55 mm

Material specifications

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

Ambient conditions

Degree of protection	IP20
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-20 °C ... 50 °C
Altitude	≤ 2000 m

Standards and regulations

Air clearances and creepage distances, input/output

Standards/regulations	DIN EN 50178: 1998-04
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Air and creepage distances, output/output

Standards/regulations	DIN EN 50178: 1998-04
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Mounting

Mounting type	DIN rail mounting
Mounting position	any

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Classifications

UNSPSC

UNSPSC 21.0	39122300
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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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com