

EMG 30-REL/MR-G220/21-21/SO109 - Relay module



2301671

<https://www.phoenixcontact.com/us/products/2301671>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Relay module, with soldered-in miniature switching relay, contact (AgNi): medium to large loads, 2 changeover contacts, input voltage 220 V DC

Commercial data

Item number	2301671
Packing unit	5 pc
Minimum order quantity	1 pc
Product key	DK61Y1
GTIN	4017918960759
Weight per piece (including packing)	72.39 g
Weight per piece (excluding packing)	64.898 g
Country of origin	DE

2301671

<https://www.phoenixcontact.com/us/products/2301671>

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
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	II
Pollution degree	2

Data management status

Date of last data management	01.04.2026
------------------------------	------------

Electrical properties

Maximum power dissipation for nominal condition	0.97 W
---	--------

Air clearances and creepage distances, input/output

Rated insulation voltage	260 V
Rated surge voltage	4 kV (1.2/50 μ s)

Air and creepage distances, output/output

Rated insulation voltage	260 V
Rated surge voltage	2.2 kV (1.2/50 μ s)

Input data

Coil side

Nominal input voltage U_N	220 V DC
Input voltage range	187 V DC ... 242 V DC (20 °C)
Typical input current at U_N	4.4 mA
Typical response time	9 ms
Typical release time	10 ms
Protective circuit	Free-wheeling diode, polarity protection diode, resistor, Z-diode

Output data

EMG 30-REL/MR-G220/21-21/SO109 - Relay module



2301671

<https://www.phoenixcontact.com/us/products/2301671>

Switching

Contact switching type	Single contact, 2 changeover contacts
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	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
Stripping length	8 mm
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
Stripping length	8 mm
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

Item dimensions

Width	30 mm
Height	75 mm
Depth	62.5 mm

Material specifications

Color	green (RAL 6021)
-------	------------------

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

2301671

<https://www.phoenixcontact.com/us/products/2301671>

Standards and regulations

Air clearances and creepage distances, input/output

Standards/regulations	DIN EN 50178: 1998-04
-----------------------	-----------------------

Air and creepage distances, output/output

Standards/regulations	DIN EN 50178: 1998-04
-----------------------	-----------------------

Mounting

Mounting type	DIN rail mounting
Mounting position	any

2301671

<https://www.phoenixcontact.com/us/products/2301671>

Classifications

ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

ETIM

ETIM 10.0	EC001437
-----------	----------

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

2301671

<https://www.phoenixcontact.com/us/products/2301671>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

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	a3ea7490-9c56-47b8-a952-933890ef982d

EF3.1 Climate Change

CO2e kg	0.347 kg CO2e
---------	---------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

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