

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 miniature switching relay, with integrated NPN transistor control, for low control currents, contact (AgNi): medium to large loads, 1 changeover contact, 12 V DC nominal control voltage

Your advantages

- Low control current (terminal block B), type-dependent from 0.5 mA
- Safe isolation between coil and contact side
- Integrated input circuit and interference suppression circuit
- Type-dependent positive or negative control current

Commercial data

Item number	2952363
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	CK61A1
Catalog page	Page 456 (C-5-2019)
GTIN	4017918084462
Weight per piece (including packing)	62.5 g
Weight per piece (excluding packing)	60 g
Customs tariff number	85364190
Country of origin	DE

# EMG 22-REL/KSR-G 24/TRN12 - Hybrid relay



2952363

<https://www.phoenixcontact.com/us/products/2952363>

## 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
Product family	EMG
Application	Universal
Operating mode	100% operating factor
Mechanical service life	approx. $5 \times 10^7$ cycles

#### Insulation characteristics

Insulation	Basic insulation
------------	------------------

#### Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

### Electrical properties

Maximum power dissipation for nominal condition	0.5 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)

### Input data

#### Coil side

Nominal input voltage $U_N$	24 V DC
Input voltage range	21.6 V DC ... 26.4 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at $U_N$	21 mA
Typical response time	9 ms
Typical release time	10 ms
Protective circuit	Reverse polarity protection; Polarity protection diode Freewheeling diode; Freewheeling diode
Operating voltage display	Yellow LED
Nominal control voltage	12 V DC
Minimum control voltage	5 V DC
Maximum control voltage	13.2 V DC
Minimum control current	0.5 mA
Maximum control current	1 mA

# EMG 22-REL/KSR-G 24/TRN12 - Hybrid relay



2952363

<https://www.phoenixcontact.com/us/products/2952363>

## Control

Nominal control voltage	12 V DC
Minimum control voltage	5 V DC
Maximum control voltage	13.2 V DC
Minimum control current	0.5 mA
Maximum control current	1 mA

## Output data

### Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Limiting continuous current	5 A
Maximum inrush current	8 A
Interrupting rating (ohmic load) max.	120 W (at 24 V DC)
	60 W (at 48 V DC)
	50 W (at 60 V DC)
	50 W (at 110 V DC)
	80 W (at 220 V DC)
	1250 VA (for 250 V AC)

## Connection data

### Coil side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12

## Dimensions

Width	22.5 mm
Height	75 mm
Depth	62.5 mm

# EMG 22-REL/KSR-G 24/TRN12 - Hybrid relay



2952363

<https://www.phoenixcontact.com/us/products/2952363>

## Material specifications

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

## 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

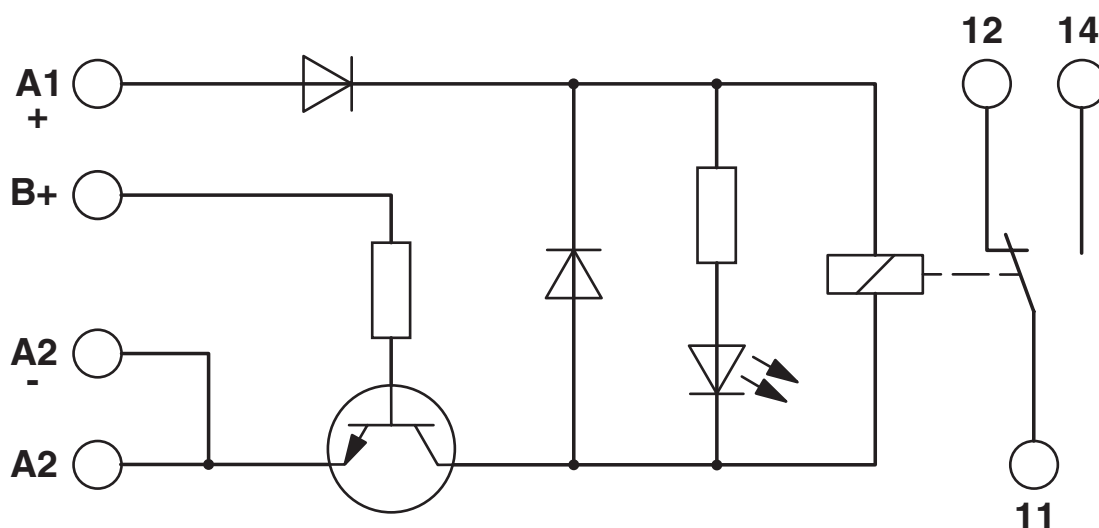
Standards/regulations	IEC 60664
	IEC 60664-1

## Mounting

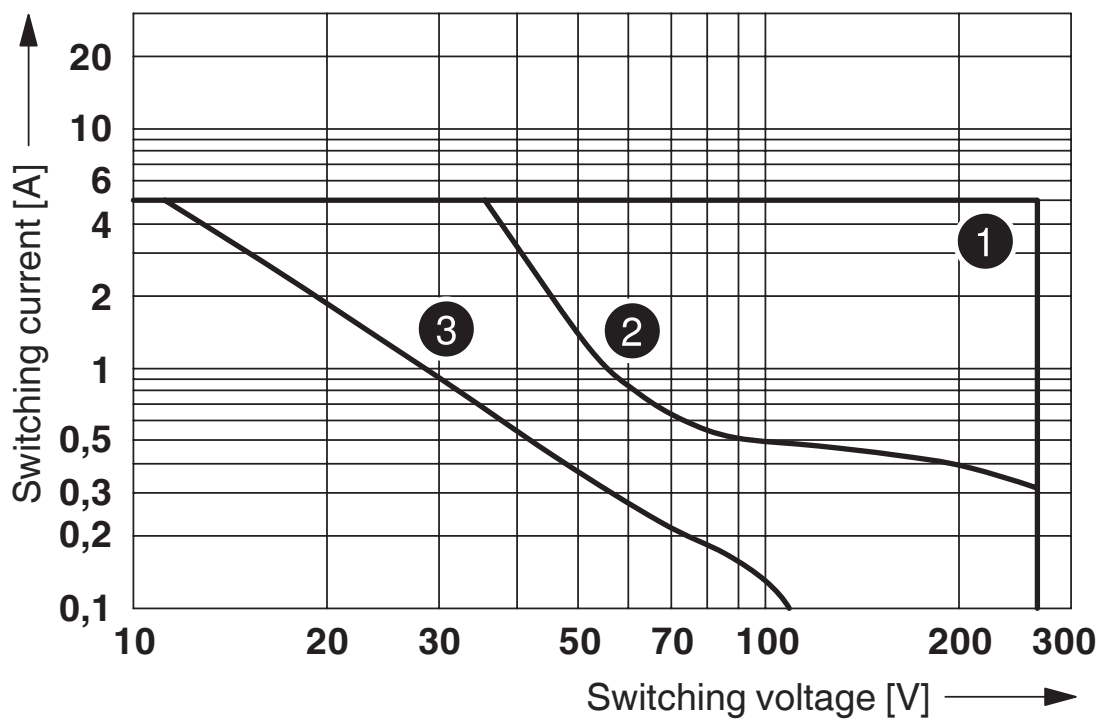
Mounting type	DIN rail mounting
Mounting position	any

## Drawings

Circuit diagram



Diagram



- ① AC, ohmic load
- ② DC, ohmic load
- ③ DC, L/R = 40 ms

# EMG 22-REL/KSR-G 24/TRN12 - Hybrid relay



2952363

<https://www.phoenixcontact.com/us/products/2952363>

## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2952363>



**EAC**

Approval ID: TR\_TS\_D\_00573\_c



**EAC**

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

# EMG 22-REL/KSR-G 24/TRN12 - Hybrid relay



2952363

<https://www.phoenixcontact.com/us/products/2952363>

## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC001437
----------	----------

### UNSPSC

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

Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Phoenix Contact 2024 © - 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](mailto:info@phoenixcon.com)