

# Relay Module - EMG 25-REL/KSR-230/2X21AU/SO46



2964843

<https://www.phoenixcontact.com/il/products/2964843>

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Plug-in relay interfaces for protection against interference on the control side, with soldered-in miniature switching relay, contacts (Au): small loads, 2 changeover contacts, input voltage 230 V AC

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## Commercial Data

Item number	2964843
Packing unit	10 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Product Key	CK6141
Catalog Page	Page 109 (IF-2005)
GTIN	4017918156947
Weight per Piece (including packing)	72.83 g
Weight per Piece (excluding packing)	72.83 g
Customs tariff number	85364900
Country of origin	DE

## Technical Data

### Notes

#### Utilization restriction

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

Product type	Relay Module
Application	Filter to prevent interference
Mechanical service life	approx. $2 \times 10^7$ cycles

#### Insulation characteristics

Overvoltage category	III
Pollution degree	2

### Electrical properties

Maximum power dissipation for nominal condition	4.14 W
Test voltage	2.5 kV AC (50 Hz, 1 min., winding/contact)

### Input data

#### Coil side

Nominal input voltage $U_N$	230 V AC/DC
Input voltage range	207 V AC/DC ... 253 V AC/DC (20 °C)
Typical input current at $U_N$	18 mA
Typical response time	10 ms
Typical release time	8 ms
Protective circuit	Bridge rectifier; Bridge rectifier
	Surge protection; Varistor
	RC element; RC element
Operating voltage display	Yellow LED

### Output data

#### Switching

Contact type	Single contact, 2 changeover contacts
Type of switch contact	Single contact
Drive and function	monostable
Contact material	Ag, gold-flashed
Maximum switching voltage	24 V AC/DC
Limiting continuous current	0.5 A
Maximum inrush current	0.2 A
Interrupting rating (ohmic load) max.	5 W

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Switching: when the gold layer is destroyed

Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC/DC
Limiting continuous current	5 A

## Connection data

Coil side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	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
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Conductor cross section AWG	24 ... 12

## Dimensions

Width	25 mm
Height	75 mm
Depth	62.5 mm

## Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-20 °C ... 40 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

## Standards and regulations

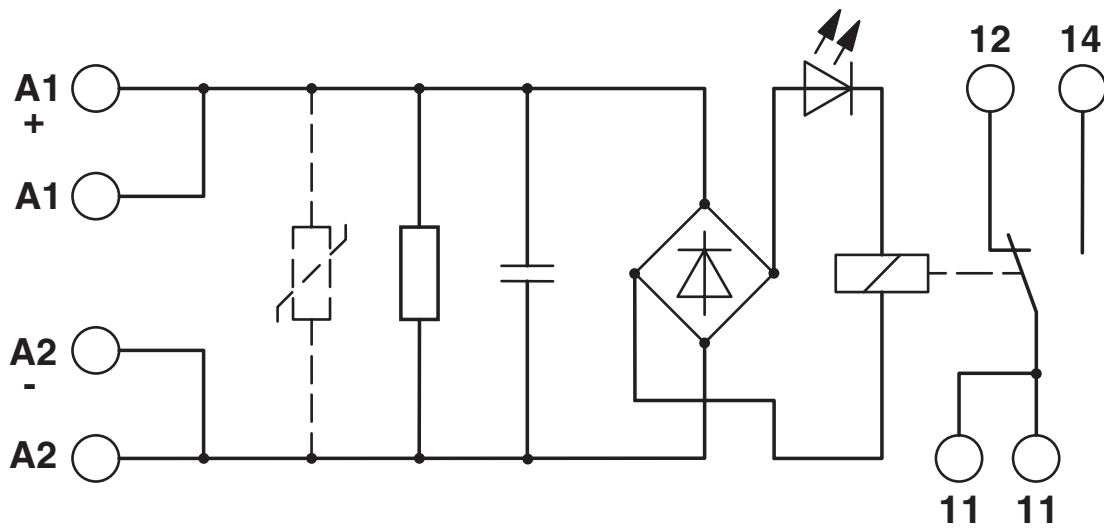
Standards/regulations	IEC 60664
	IEC 60664A
	DIN VDE 0110
	DIN VDE 0109-11, draft
	IEC 60255/DIN VDE 0435 (in relevant parts)

## Mounting

Mounting type	DIN rail mounting
Mounting position	any

## Drawings

Circuit diagram



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## Approvals



**EAC**

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



**EAC**

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

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## Classifications

### ECLASS

ECLASS-10.0.1	27371601
ECLASS-9.0	27371601
ECLASS-11.0	27371601

### ETIM

ETIM 8.0	EC001437
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental Product Compliance

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

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