

# Relay Module - EMG 10-REL/KSR-G 24/21-LC AU - 2940090

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Relay module, with soldered-in miniature switching relay, gold contact for small loads, 1 PDT, input voltage 24 V DC


The figure shows version EMG 10-REL/KSR-G 24/1-LC, with soldered-in miniature switching relay

## Why buy this product

- Safe isolation according to DIN EN 50178 between coil and contact
- Integrated input circuit and interference suppression circuit



## Key Commercial Data

Packing unit	10 STK
GTIN	 4 017918 079864
GTIN	4017918079864

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Width	10.6 mm
Height	75 mm
Depth	62.5 mm

### Ambient conditions

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

### Coil side

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## Technical data

### Coil side

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.1
Typical input current at $U_N$	21 mA
Typical response time	7 ms
Typical release time	11 ms
Protective circuit	Reverse polarity protection Polarity protection diode Free-wheeling diode Damping diode
Operating voltage display	Yellow LED
Power dissipation for nominal condition	0.5 W

### Contact side

Contact type	Double contact, 1 PDT
Type of switch contact	Double contact
Contact material	AgPd60, hard gold-plated
Maximum switching voltage	30 V AC 36 V DC
Maximum inrush current	0.2 A
Limiting continuous current	0.5 A
Interrupting rating (ohmic load) max.	5 W (at 24 V DC)

### Contact side (with destroyed gold layer)

Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	125 V AC 150 V DC
Limiting continuous current	2 A
Maximum inrush current	2 A
Interrupting rating (ohmic load) max.	29 W (at 24 V DC) 29 W (at 48 V DC) 29 W (at 60 V DC)

### General

Test voltage relay winding/relay contact	4 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	approx. $2 \times 10^7$ cycles
Mounting position	any
Assembly instructions	In rows with zero spacing

### Connection data input side

Connection name	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>

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## Technical data

### Connection data input side

Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12

### Connection data output side

Connection name	Contact 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

### Standards and Regulations

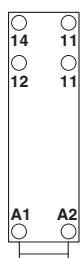
Connection in acc. with standard	CUL
Standards/regulations	IEC 60664
	EN 50178
Insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

### Environmental Product Compliance

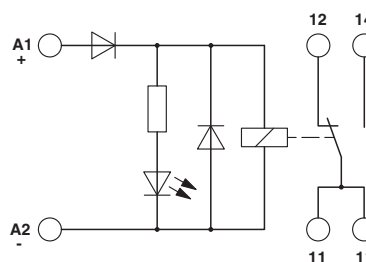
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Connection diagram



Circuit diagram



## Approvals

### Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

# Relay Module - EMG 10-REL/KSR-G 24/21-LC AU - 2940090





## Approvals

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Ex Approvals

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### Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
EAC			RU C- DE.A*30.B.01082
cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	

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