EMG 17-REL/KSR-120/21-21-LC AU - Relay Module



2941455

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Relay module, with soldered-in miniature switching relay, contact (AgNi+Au): small to large loads, 2 changeover contacts, input voltage 120 V AC/DC

Your advantages

- · Safe isolation between coil and contact side
- · Integrated input circuit and interference suppression circuit

Commercial data

Item number	2941455
Packing unit	10 рс
Minimum order quantity	1 pc
Sales key	CK6146
Product key	CK6146
Catalog page	Page 135 (IF-2011)
GTIN	4017918080457
Weight per piece (including packing)	57.41 g
Weight per piece (excluding packing)	57.41 g
Customs tariff number	85364190
Country of origin	DE

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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. 2x 10 ⁷ cycles

Insulation characteristics

Insulation	Basic insulation
	Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
	Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths
Overvoltage category	11
Pollution degree	2

Insulation characteristics: Air clearances and creepage distances between input and contact circuit (or output contact current path)

Insulation	Safe isolation, reinforced insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	0.72 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (Contact/contact)	1 kV AC (50 Hz, 1 min., changeover contact/changeover contact)

Air clearances and creepage distances between the power circuits

Rated insulation voltage	260 V AC
Rated surge voltage	2.3 kV

Air clearances and creepage distances between input and contact circuit (or output contact current path)

Rated insulation voltage	260 V AC
Rated surge voltage	6 kV

Input data





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Nominal input voltage U _N	120 V AC/DC
Input voltage range	96 V AC/DC 132 V AC/DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U _N	6 mA
Typical response time	8 ms
Typical release time	10 ms
Protective circuit	Bridge rectifier; Bridge rectifier
Operating voltage display	Yellow LED

Output data

Switching	
Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Limiting continuous current	50 mA
Maximum inrush current	0.2 A
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)

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
Maximum inrush current	6 A
Interrupting rating (ohmic load) max.	120 W (at 24 V DC)
	95 W (at 48 V DC)
	60 W (at 60 V DC)
	40 W (at 110 V DC)
	55 W (at 220 V DC)
	1250 VA (for 250 V AC)

Connection data

Coil side				
Screw connection				
8 mm				
M3				
0.2 mm ² 4 mm ²				
0.2 mm ² 2.5 mm ²				
24 12				

Contact side



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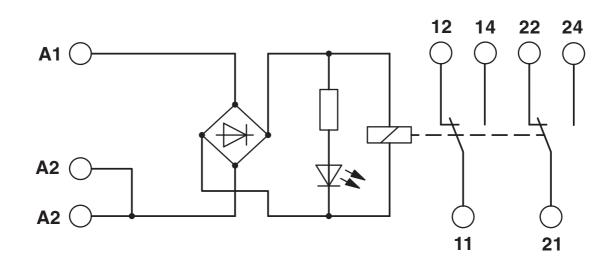
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² 4 mm ²
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 12
imensions	
Width	17.5 mm
Height	75 mm
Depth	62.5 mm
laterial specifications	
Color	green (RAL 6021)
nvironmental and real-life conditions Ambient conditions	
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nvironmental and real-life conditions	-20 °C 40 °C -20 °C 70 °C
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Drawings

Circuit diagram



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2941455

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91	UL Recognized Approval ID: FILE E 238705
	EAC
EAC	EAC Approval ID: TR_TS_D_00573_c
EAC	EAC Approval ID: RU*C-DE.*08.B.00010
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Classifications

ECLASS

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

ETIM

	ETIM 9.0	EC001437		
UNSPSC				
	UNSPSC 21.0	39122300		

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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"

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Accessories

EMG-GKS 12 - Marking material

2947035 https://www.phoenixcontact.com/gb/products/2947035



Device marking label, width: 12 mm, area: 12 x 8 mm, e.g. for EML(10x7) R adhesive marking material

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PHOENIX CONTACT Ltd Halesfield 13, Telford Shropshire, TF7 4PG 01952 681700 info@phoenixcontact.co.uk