

2964432

<https://www.phoenixcontact.com/gb/products/2964432>

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, contacts (AgNi): Medium to large loads, 1 N/O contact, input voltage 120 V AC/DC

Your advantages

- Integrated input circuit and interference suppression circuit

Commercial data

Item number	2964432
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CK6142
Product key	CK6142
Catalog page	Page 133 (IF-2011)
GTIN	4017918125103
Weight per piece (including packing)	36.22 g
Weight per piece (excluding packing)	36.22 g
Customs tariff number	85364900
Country of origin	DE

EMG 10-REL/KSR-120/ 1-LC - Relay Module



2964432

<https://www.phoenixcontact.com/gb/products/2964432>

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. 2×10^7 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	0.6 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)
Rated insulation voltage	260 V AC
Rated surge voltage	4 kV

Input data

Coil side

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	5 mA
Typical response time	7 ms
Typical release time	11 ms
Protective circuit	Bridge rectifier; Bridge rectifier Surge protection; Varistor
Operating voltage display	Yellow LED

Output data

Switching

EMG 10-REL/KSR-120/ 1-LC - Relay Module



2964432

<https://www.phoenixcontact.com/gb/products/2964432>

Contact switching type	1 N/O contact
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V
Limiting continuous current	6 A
Maximum inrush current	8 A
Min. switching current	100 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	60 W (at 48 V DC)
	45 W (at 60 V DC)
	35 W (at 110 V DC)
	55 W (at 220 V DC)
	1500 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 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
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

Dimensions

Width	10.6 mm
Height	75 mm
Depth	53.5 mm

Material specifications

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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 40 °C

EMG 10-REL/KSR-120/ 1-LC - Relay Module



2964432

<https://www.phoenixcontact.com/gb/products/2964432>

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

Standards and regulations

Standards/regulations	IEC 60664
	EN 50178

Mounting

Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

EMG 10-REL/KSR-120/ 1-LC - Relay Module

2964432

<https://www.phoenixcontact.com/gb/products/2964432>



Drawings

Connection diagram



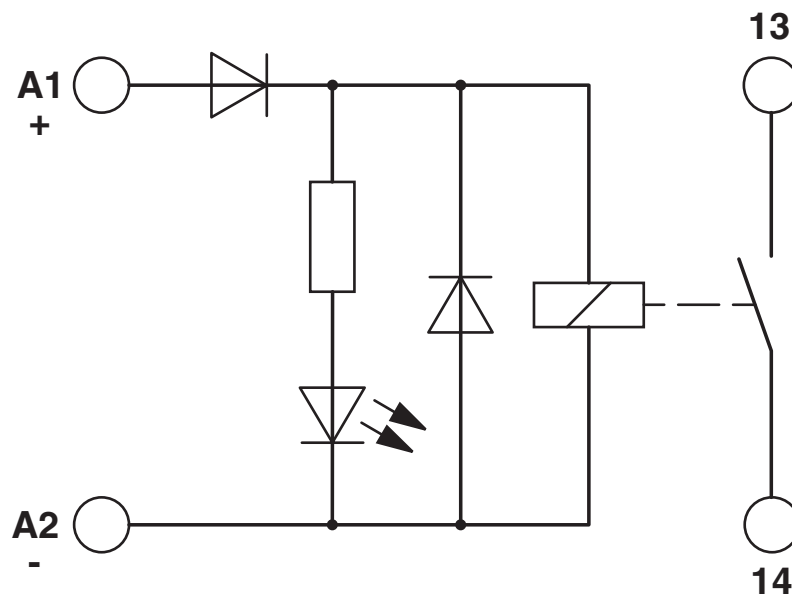
EMG 10-REL/KSR-120/ 1-LC - Relay Module

2964432

<https://www.phoenixcontact.com/gb/products/2964432>



Circuit diagram



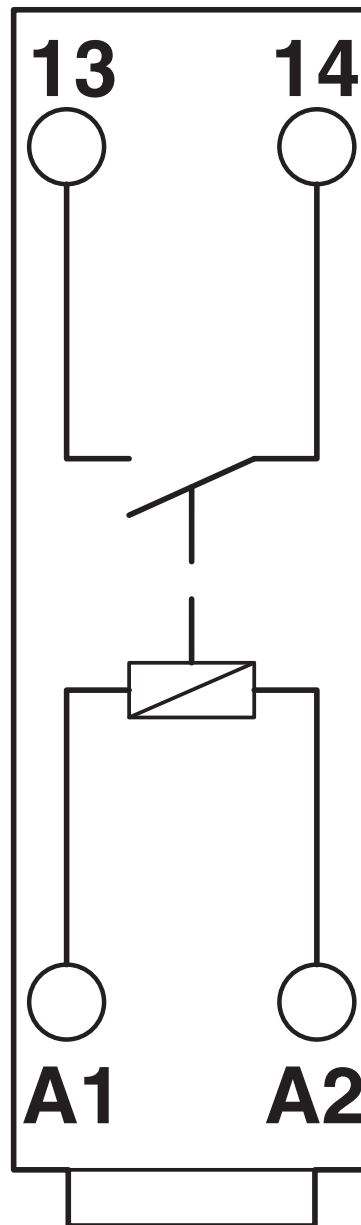
EMG 10-REL/KSR-120/ 1-LC - Relay Module

2964432

<https://www.phoenixcontact.com/gb/products/2964432>



Circuit diagram



EMG 10-REL/KSR-120/ 1-LC - Relay Module



2964432

<https://www.phoenixcontact.com/gb/products/2964432>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2964432>



cUL Recognized
Approval ID: FILE E 238705



UL Recognized
Approval ID: FILE E 238705



EAC
Approval ID: TR_TS_D_00573_c



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

cULus Recognized

EMG 10-REL/KSR-120/ 1-LC - Relay Module



2964432

<https://www.phoenixcontact.com/gb/products/2964432>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

EMG 10-REL/KSR-120/ 1-LC - Relay Module



2964432

<https://www.phoenixcontact.com/gb/products/2964432>

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"

EMG 10-REL/KSR-120/ 1-LC - Relay Module



2964432

<https://www.phoenixcontact.com/gb/products/2964432>

Accessories

EMG-SGKS 10 - Marking material

2947585

<https://www.phoenixcontact.com/gb/products/2947585>



Equipment marker, narrow

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

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