

2952910

<https://www.phoenixcontact.com/gb/products/2952910>

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 remanence miniature switching relay, with negative switching diode wiring, contacts (AgSnO): small to large loads, 1 changeover contact, input voltage 24 V DC

Commercial data

Item number	2952910
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CK6142
Product key	CK6142
Catalog page	Page 145 (IF-2009)
GTIN	4017918084509
Weight per piece (including packing)	47.27 g
Weight per piece (excluding packing)	47.27 g
Customs tariff number	85364190
Country of origin	DE

EMG 17-REL/SG-B 24/21/M - Relay Module



2952910

<https://www.phoenixcontact.com/gb/products/2952910>

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. 10^7 cycles

Insulation characteristics

Insulation	Safe isolation, reinforced insulation
------------	---------------------------------------

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

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

Electrical properties

Maximum power dissipation for nominal condition	0.19 W
Test voltage (Winding/contact)	4 kV _{rms} (50 Hz, 1 min., winding/contact)

Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC
Rated surge voltage	4 kV

Input data

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range	19.2 V DC ... 26.4 V DC (20 °C)
Drive and function	bistable
Drive (polarity)	polarized
Typical input current at U_N	typ. 8 mA
Typical response time	5 ms
Typical release time	5 ms
Pulse time range	30 ms ... 5 s
Coil voltage	24 V DC
Protective circuit	Freewheeling diode; Freewheeling diode Reverse polarity protection; Polarity protection diode

EMG 17-REL/SG-B 24/21/M - Relay Module



2952910

<https://www.phoenixcontact.com/gb/products/2952910>

Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA) 24 V (At 1 mA)
Limiting continuous current	6 A
Maximum inrush current	8 A
Min. switching current	1 mA (at 24 V) 100 mA (At 5 V)
Interrupting rating (ohmic load) max.	144 W (at 24 V DC) 43 W (at 48 V DC) 42 W (at 60 V DC) 55 W (at 110 V DC) 100 W (at 220 V DC) 1500 VA (for 250 V AC)

Switching: when the 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) 40 W (at 48 V DC) 35 W (at 60 V DC) 30 W (at 110 V DC) 55 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 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

EMG 17-REL/SG-B 24/21/M - Relay Module



2952910

<https://www.phoenixcontact.com/gb/products/2952910>

Conductor cross section rigid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

Dimensions

Width	17.5 mm
Height	75 mm
Depth	62.5 mm

Material specifications

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

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C

Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	DIN EN 50178
-----------------------	--------------

Mounting

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

EMG 17-REL/SG-B 24/21/M - Relay Module

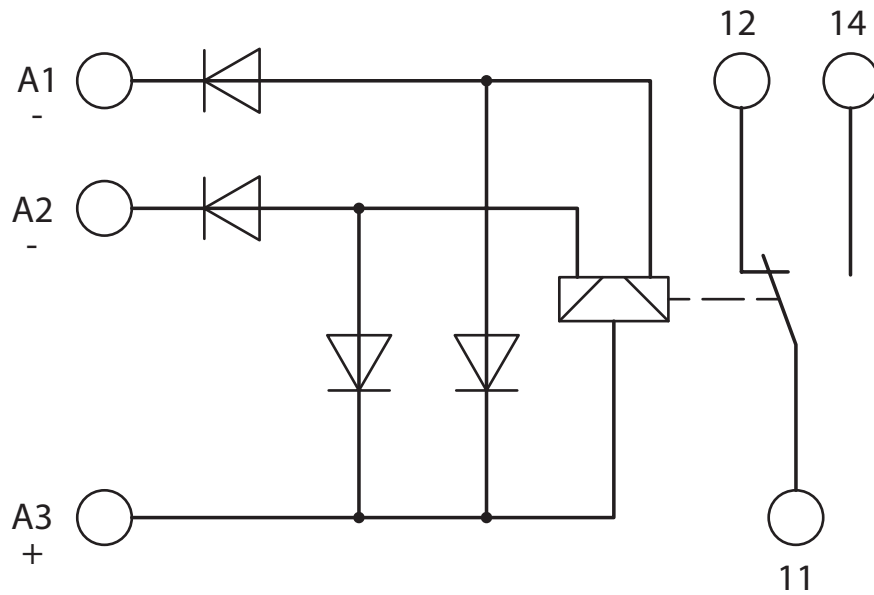
2952910

<https://www.phoenixcontact.com/gb/products/2952910>



Drawings

Circuit diagram



EMG 17-REL/SG-B 24/21/M - Relay Module



2952910

<https://www.phoenixcontact.com/gb/products/2952910>

Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2952910>



EAC

Approval ID: TR_TS_D_00573_c



EAC

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

EMG 17-REL/SG-B 24/21/M - Relay Module



2952910

<https://www.phoenixcontact.com/gb/products/2952910>

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 17-REL/SG-B 24/21/M - Relay Module



2952910

<https://www.phoenixcontact.com/gb/products/2952910>

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"

EMG 17-REL/SG-B 24/21/M - Relay Module



2952910

<https://www.phoenixcontact.com/gb/products/2952910>

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

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