chanhvinh.com

EMG 17-OV-TTL/ 24DC/2 - Solid-state relay module

2943259

https://www.phoenixcontact.com/gb/products/2943259

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.



Power solid-state relay, with LED and protective circuit in input and output circuits, input: TTL 5 V DC, output: short-circuit-proof, 24 V DC/max. 2 A

Commercial data

Item number	2943259
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CK61C2
Product key	CK61C2
Catalog page	Page 141 (IF-2011)
GTIN	4017918107543
Weight per piece (including packing)	54.4 g
Weight per piece (excluding packing)	54.4 g
Customs tariff number	85364190
Country of origin	DE

chanhvinh.com

EMG 17-OV-TTL/ 24DC/2 - Solid-state relay module

2943259

https://www.phoenixcontact.com/gb/products/2943259

Technical data

Notes

Utilization restriction

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

Product properties

Product type	Solid-state relay module
Application	TTL signal at input
Operating mode	100% operating factor

Insulation characteristics

Insulation	Basic insulation

Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

Test voltage (Input/output)	2.5 kV AC (Input/output)

Input data

Nominal input voltage U_N	5 V DC (TTL)
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	4 V DC ... 6 V DC
Switching threshold "0" signal, voltage	0.8 V (TTL)
Switching threshold "1" signal voltage	2 V (TTL)
Typical input current at U_N	2.6 mA
Typical response time	170 µs
Typical turn-off time	190 µs
Status display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection; Suppressor diode
	Free running; Freewheeling diode
Auxiliary voltage TTL input	5 V DC ±20 %
Auxiliary current TTL input	2.8 mA
Transmission frequency	1000 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	10 V DC ... 30 V DC

chanhvinh.com

EMG 17-OV-TTL/ 24DC/2 - Solid-state relay module

2943259

https://www.phoenixcontact.com/gb/products/2943259

Limiting continuous current	2 A (see derating curve)
Leakage current	150 µA
Peak offstate voltage	33 V DC (Collector-emitter reverse voltage)
Current limitation at short-circuits	> 2 A (short-circuit-proof)
Voltage drop at max. limiting continuous current	≤ 0.3 V
Output circuit	3-conductor, ground-referenced
Error indication	Red LED
Protective circuit	Reverse polarity protection; Polarity protection diode
	Freewheeling diode; Freewheeling diode
	Surge protection; Suppressor diode

Connection data

Input side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
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

Output side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
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	102 mm

Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Standards and regulations

chanhvinh.com

Standards/regulations	IEC 60664
	EN 50178

Mounting

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

chanhvinh.com

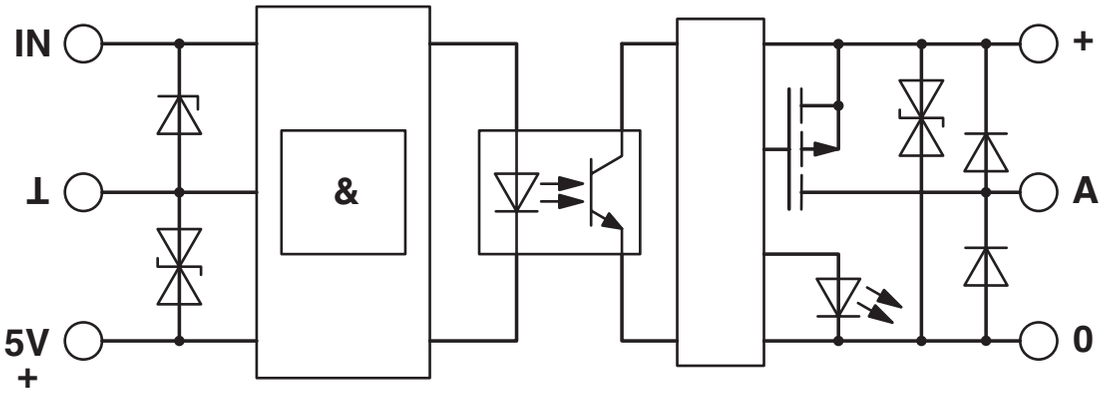
EMG 17-OV-TTL/ 24DC/2 - Solid-state relay module

2943259

https://www.phoenixcontact.com/gb/products/2943259

Drawings

Circuit diagram



chanhvinh.com

EMG 17-OV-TTL/ 24DC/2 - Solid-state relay module

2943259

https://www.phoenixcontact.com/gb/products/2943259

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2943259

EAC
Approval ID: TR_TS_D_00573_c

chanhvinh.com

EMG 17-OV-TTL/ 24DC/2 - Solid-state relay module

2943259

https://www.phoenixcontact.com/gb/products/2943259

Classifications

ECLASS

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-13.0	27371604

ETIM

ETIM 9.0	EC001504

UNSPSC

UNSPSC 21.0	39122300

chanhvinh.com

EMG 17-OV-TTL/ 24DC/2 - Solid-state relay module

2943259

https://www.phoenixcontact.com/gb/products/2943259

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”

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