

Solid-state relay module - EMG 17-OV-TTL/ 24DC/2 - 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's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



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

Product Features

- RC protective circuit
- EMG-17-OV, short-circuit-proof with indicator LED
- Protective circuit in input and output
- Zero voltage switch
- Electrical isolation
- Status indicator



Key commercial data

package_quantity	10
GTIN	4017918107543

Technical data

Note:

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

Dimensions

Width	17.5 mm
Height	75 mm
Depth	102 mm

Ambient conditions

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

Input data

Nominal input voltage U_N	5 V (TTL)
Input voltage range in reference to U_N	0.8 ... 1.2
Switching threshold "0" signal, voltage	0.8 V (TTL)

Solid-state relay module - EMG 17-OV-TTL/ 24DC/2 - 2943259

Technical data

Input data

Switching threshold "0" signal in reference to U_N	(0.8 V; TTL)
Switching threshold "1" signal voltage	2 V (TTL)
Switching threshold "1" signal in reference to U_N	(2 V; TTL)
Typical input current at U_N	2.6 mA
Typical response time	170 μ s
Typical turn-off time	190 μ s
Status display	Yellow LED
Type of protection	Protection against polarity reversal
Type of protection	Surge protection
Type of protection	Free running
Protective circuit/component	Polarity protection diode
Protective circuit/component	Suppressor diode
Protective circuit/component	Damping diode
Auxiliary voltage TTL input	5 V DC \pm 20 %
Auxiliary current TTL input	2.8 mA
Transmission frequency	1000 Hz

Output data

Output voltage range	10 V DC ... 30 V DC
Limiting continuous current	2 A (see derating curve)
Leakage current	150 μ A
Peak offstate voltage	33 V DC (Collector-emitter reverse voltage)
Current limitation at short-circuits	> 2 A (short-circuit resistant)
Voltage drop at max. limiting continuous current	\leq 0.3 V
Output circuit	3-conductor, ground-referenced
Indication	Red LED
Type of protection	Protection against polarity reversal
Type of protection	Free-wheeling diode
Type of protection	Surge protection
Protective circuit/component	Polarity protection diode
Protective circuit/component	Damping diode
Protective circuit/component	Suppressor diode

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24

Solid-state relay module - EMG 17-OV-TTL/ 24DC/2 - 2943259

Technical data

Connection data

Conductor cross section AWG/kcmil max	12
--	----

General

Test voltage input/output	2.5 kV
Test voltage input/output	2.5 kV AC
Mounting position	Any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Inflammability class according to UL 94	V0
Standards/regulations	IEC 60664
Standards/regulations	EN 50178
Standards/regulations	IEC 62103
Rated surge voltage / insulation	Basic insulation
Pollution degree	2
Surge voltage category	III

classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371001

ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 5.0	EC001504

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39121542

approvals

GOST /

Solid-state relay module - EMG 17-OV-TTL/ 24DC/2 - 2943259

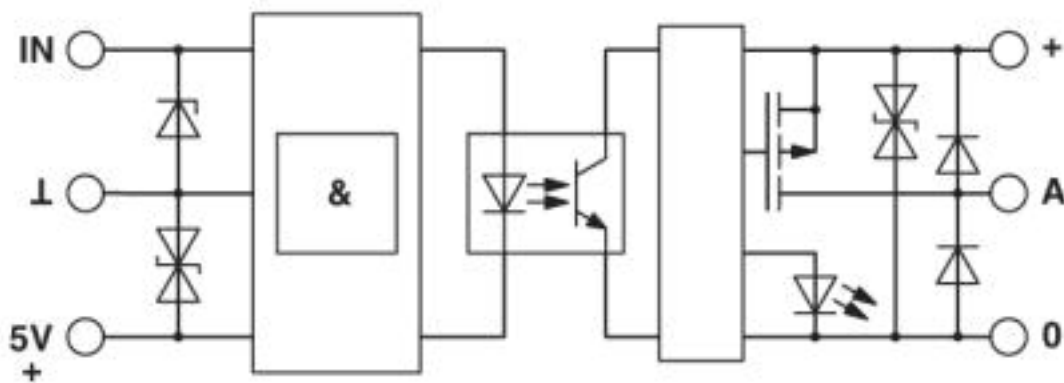
approvals

Approval details



Drawings

Circuit diagram



© Phoenix Contact 2013 - all rights reserved
<http://www.phoenixcontact.com>