Solid-state relay module - PLC-OPT- 36DC/110DC/3RW - 2900392

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The figure shows a version with a screw connection

PLC-INTERFACE for railway applications, consisting of basic terminal block with push-in connection and integrated miniature solid-state relay, range: 0.7 x U_N to 1.25 x U_N, temperature range: -25°C to +70°C, 1 N/O contact, input: 36 V DC, output: 12 - 140 V DC/3 A

Product Features

- Shock resistance according to DIN 50155 (requirements according to EN 61373)
- Temperature range of -25°C to +70°C
- Input voltage range of 0.7 - 1.25 x UN

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	31.19 GRM
Custom tariff number	85364190
Country of origin	Germany

Technical data

Note

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

Dimensions

Width	6.2 mm
Height	80 mm
Depth	86 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 70 °C

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Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

Input data

Nominal input voltage U_N	36 V DC
Input voltage range in reference to U_N	0.7 ... 1.25 (t < 1 s = 0.6 ... 1.4 x U_N)
Switching threshold "0" signal in reference to U_N	< 0.4
Switching threshold "1" signal in reference to U_N	> 0.6
Typical input current at U_N	12 mA
Typical response time	400 µs
Typical turn-off time	100 µs
Operating voltage display	Yellow LED
Type of protection	Protection against polarity reversal
	Surge protection
Protective circuit/component	Series polarity protection diode
Surge voltage protection	> 150 V
Transmission frequency	50 Hz

Output data

Output nominal voltage	110 V DC
Output voltage range	12 V DC ... 140 V DC (t < 1 s = 1.40 x U_N)
Limiting continuous current	3 A (see derating curve)
Surge voltage protection	> 150 V
Voltage drop at max. limiting continuous current	< 150 mV
Output circuit	2-wire, floating
Type of protection	Protection against polarity reversal
	Surge protection
Protective circuit/component	Parallel polarity protection diode

Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section stranded min.	0.14 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	14

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General

Test voltage input/output	2.5 kV_{rms}
Mounting position	any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Inflammability class according to UL 94	V0
Designation	Air and creepage distances between the power circuits
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage / insulation	4 kV / basic insulation
Rated insulation voltage	160 V DC
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	EC000196
ETIM 5.0	EC000196

UNSPSC

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

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Approvals

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UL Listed / cUL Listed / UL Recognized / cUL Recognized / cULus Recognized / cULus Listed

Ex Approvals

Approvals submitted

Approval details

UL Listed

cUL Listed

UL Recognized

cUL Recognized

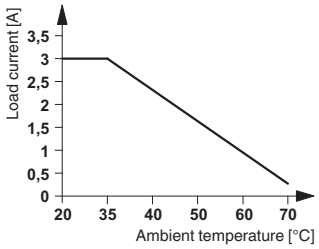
cULus Recognized

cULus Listed

Drawings

Solid-state relay module - PLC-OPT- 36DC/110DC/3RW - 2900392

Diagram



Circuit diagram