Solid-state relay module - PLC-OPT- 48DC/ 24DC/2 - 2900365

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PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with push-in connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 48 V DC, output: 3 - 33 V DC/3 A

Your advantages

- Slim design
- Efficient connection to system cabling using V8 adapter
- RT III sealed solid-state relay
- Functional plug-in bridges
- High switching power
- Integrated input circuit
- Zero voltage switch at AC output

Key commercial data

package_quantity	10
GTIN	4046356506809

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	94 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C

Input data

Nominal input voltage U_N	48 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	38.4 V DC ... 57.6 V DC

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Input data

Switching threshold "0" signal in reference to U_N	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	9 mA
Typical response time	30 µs (at U_N)
Typical turn-off time	300 µs (at U_N)
Operating voltage display	Yellow LED
Type of protection	Reverse polarity protection
Type of protection	Free-wheeling diode
Protective circuit/component	Polarity protection diode
Protective circuit/component	Damping diode
Transmission frequency	300 Hz
Power dissipation for nominal condition	0.43 W

Output data

Output voltage range	3 V DC ... 33 V DC
Limiting continuous current	3 A (see derating curve)
Maximum inrush current	15 A (10 ms)
Voltage drop at max. limiting continuous current	≤ 200 mV
Output circuit	2-wire, floating
Type of protection	Reverse polarity protection
Type of protection	Surge protection
Protective circuit/component	Polarity protection diode

Connection data, input side

Connection name	Input side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
Conductor cross section AWG	26 ... 14

Connection data, output side

Connection name	Output side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
Conductor cross section AWG	26 ... 14

General

Test voltage input/output	2.5 kV (50 Hz, 1 min.)
Mounting position	any
Assembly instructions	In rows with zero spacing

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Technical data

General

Operating mode	100% operating factor
Flammability rating according to UL 94	V0
Degree of pollution	2
Overvoltage category	III

Standards and Regulations

Standard designation	Standards/regulations
Standards/regulations	IEC 60664
Standards/regulations	IEC 60664A
Standards/regulations	DIN VDE 0110
Connection in acc. with standard	CUL
Flammability rating according to UL 94	V0

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
China RoHS	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Classifications

eCl@ss

eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371604
eCl@ss 7.0	27371604
eCl@ss 8.0	27371604
eCl@ss 9.0	27371604

ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 5.0	EC001504
ETIM 6.0	EC001504

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39122326

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Approvals

UL Recognized / UL Listed / cUL Recognized / cUL Listed / EAC / DNV GL / cULus Recognized / cULus Listed /

Approval details

UL Recognized

UL Listed

cUL Recognized

cUL Listed

EAC

DNV GL

cULus Recognized

cULus Listed

Accessories

DIN rail

NS 35/ 7,5 PERF 2000MM - 0801733

NS 35/ 7,5 CU UNPERF 2000MM - 0801762

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Accessories

NS 35/15 UNPERF 2000MM - 1201714

NS 35/15 CU UNPERF 2000MM - 1201895

NS 35/15-2,3 UNPERF 2000MM - 1201798

NS 35/15 AL UNPERF 2000MM - 1201756

NS 35/15 PERF 2000MM - 1201730

NS 35/ 7,5 UNPERF 2000MM - 0801681

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Accessories

NS 35/ 7,5 V2A UNPERF 2000MM - 0801377

Terminal marking

ZB 6/WH-100:UNBEDRUCKT - 5060935

ZB 6:UNBEDRUCKT - 1051003

Labeled terminal marker

ZB 6,LGS:FORTL.ZAHLEN - 1051016

Partition plate

PLC-ATP BK - 2966841

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Accessories

Power module

PLC-ESK GY - 2966508

Screwdriver tools

SZF 1-0,6X3,5 - 1204517

Relay socket

PLC-BPT- 48DC/21 - 2900447

Single solid-state relay

OPT-24DC/ 24DC/ 2 - 2966595

Bridge

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Accessories

FBST 500-PLC RD - 2966786

FBST 500-PLC BU - 2966692

FBST 500-PLC GY - 2966838

FBST 6-PLC RD - 2966236

FBST 6-PLC BU - 2966812

FBST 6-PLC GY - 2966825

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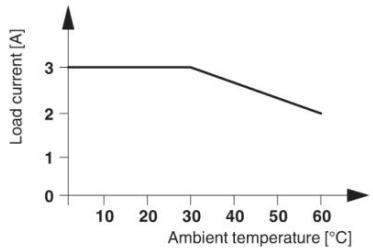
Accessories

FBST 8-PLC GY - 2967688

Drawings

Diagram



Circuit diagram