

Solid-state relay module - PLC-OSC-125DC/ 24DC/ 2 - 2980050

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PLC-INTERFACE, consisting of PLC-BSP... basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input: 125 V DC, output: 3 - 33 V DC/3 A

The illustration shows the version PLC-BSC- 24DC/21

Product Features

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



Key commercial data

package_quantity	10
GTIN	4017918619053

Technical data

Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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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	125 V DC
Input voltage range in reference to U_N	0.8 ... 1.1

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Input data

Switching threshold "0" signal in reference to U_N	≤ 0.3
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	3 mA
Typical response time	40 μ s (at U_N)
Typical turn-off time	600 μ s (at U_N)
Operating voltage display	Yellow LED
Type of protection	Protection against polarity reversal
Protective circuit/component	Polarity protection diode
Transmission frequency	100 Hz

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	Protection against polarity reversal
Type of protection	Surge protection
Protective circuit/component	Polarity protection diode

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	14

General

Test voltage input/output	2.5 kV (50 Hz, 1 min.)
Mounting position	Any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Inflammability class according to UL 94	V0
Name	Standards/regulations
Standards/regulations	IEC 60664
Standards/regulations	EN 50178
Standards/regulations	IEC 62103
Rated surge voltage / insulation	Basic insulation
Pollution degree	2

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General

Surge voltage category	III
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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

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

Approval details


GL

UL Listed

cUL Listed

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approvals

UL Recognized 

cUL Recognized 

cULus Recognized 

cULus Listed 

accessories

Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733



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



NS 35/15 UNPERF 2000MM - 1201714



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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



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



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accessories

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



Power module

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accessories

PLC-ESK GY - 2966508



Screwdriver tools

SZF 1-0,6X3,5 - 1204517



Relay socket

PLC-BSC-125DC/21 - 2980018



Single solid-state relay

OPT-60DC/ 24DC/ 2 - 2966605



Bridge

FBST 500-PLC RD - 2966786



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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



accessories

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Drawings

Solid-state relay module - PLC-OSC-125DC/ 24DC/ 2 - 2980050

Circuit diagram

