

# Solid-state relay module - PLC-OSC-125DC/ 48DC/100 - 2980047

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PLC-INTERFACE, consisting of PLC-BSC... 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 - 48 V DC/100 mA

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
- Functional plug-in bridges
- Integrated input circuit
- High switching power
- Zero voltage switch at AC output



## Key commercial data

<b>package_quantity</b>	10
<b>GTIN</b>	4017918619060

## Technical data

Note:

<b>Utilization restriction</b>	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

<b>Width</b>	6.2 mm
<b>Height</b>	80 mm
<b>Depth</b>	94 mm

### Ambient conditions

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

### Input data

<b>Nominal input voltage <math>U_N</math></b>	125 V DC
<b>Input voltage range in reference to <math>U_N</math></b>	0.8 ... 1.1

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## Technical data

### Input data

Switching threshold "0" signal in reference to $U_N$	$\leq 0.4$
Switching threshold "1" signal in reference to $U_N$	$\geq 0.8$
Typical input current at $U_N$	3 mA
Typical response time	1 ms (at $U_N$ )
Typical turn-off time	3 ms (at $U_N$ )
Status display	Yellow LED
Transmission frequency	50 Hz

### Output data

Output voltage range	3 V DC ... 48 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	$\leq 1$ V
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 <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
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
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

UL Recognized

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approvals

cUL Recognized 

cULus Recognized 

cULus Listed 

accessories

## Mounting rail

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



NS 35/ 7,5 PERF 2000MM - 0801733



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



## Solid-state relay module - PLC-OSC-125DC/ 48DC/100 - 2980047

### 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



## Solid-state relay module - PLC-OSC-125DC/ 48DC/100 - 2980047

accessories

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### Power module

PLC-ESK GY - 2966508



### Partition plate

PLC-ATP BK - 2966841



### Screwdriver tools

SZF 1-0,6X3,5 - 1204517



### Labeled terminal marker

ZB 6,LGS:FORTL.ZAHLEN - 1051016



### Terminal marking

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accessories

ZB 6:UNBEDRUCKT - 1051003



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### Relay socket

PLC-BSC-125DC/21 - 2980018



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### Single solid-state relay

OPT-60DC/ 48DC/100 - 2966621



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### Bridge

FBST 500-PLC RD - 2966786



FBST 500-PLC BU - 2966692



## Solid-state relay module - PLC-OSC-125DC/ 48DC/100 - 2980047

### accessories

FBST 500-PLC GY - 2966838



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FBST 6-PLC RD - 2966236



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FBST 6-PLC BU - 2966812



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FBST 6-PLC GY - 2966825



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FBST 8-PLC GY - 2967688



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### Drawings



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Circuit diagram

