

Solid-state relay module - PLC-OSC- 5DC/ 24DC/ 2/ACT - 2980144

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PLC-INTERFACE, consisting of PLC-BSC...ACT basic terminal block, with screw connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input voltage: 5 V DC, further input voltages on request.

The illustration shows the version PLC-OSC- 24DC/24DC/2/ACT

Product Features

- Actuator connected directly to relay module
- No need for additional modular terminal blocks
- Efficient connection to system cabling using V8 adapter
- Time savings of up to 60%
- Relay modules with safe isolation according to DIN EN 50178 between coil and contact
- Space savings of up to 80%
- Functional plug-in bridges



Key commercial data

package_quantity	10
GTIN	4017918727499

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	5 V DC
Input voltage range in reference to U_N	0.8 ... 1.2

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Input data

Switching threshold "0" signal in reference to U_N	≤ 0.25
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	9.5 mA
Typical response time	20 μ s (at U_N)
Typical turn-off time	300 μ s (at U_N)
Operating voltage display	Yellow LED
Type of protection	Protection against polarity reversal
Type of protection	Free-wheeling diode
Protective circuit/component	Polarity protection diode
Protective circuit/component	Damping diode
Transmission frequency	300 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

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General

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

Approval details

GOST 
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GL

UL Listed 


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approvals

cUL Listed 

UL Recognized 

cUL Recognized 

cULus Recognized  US

cULus Listed  US

accessories

Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733



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



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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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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-BSC- 5DC/ 1/ACT - 2980241



Single solid-state relay

OPT- 5DC/ 24DC/ 2 - 2967989



Bridge

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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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FBST 8-PLC GY - 2967688



Drawings

Circuit diagram

