

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



2980157

<https://www.phoenixcontact.com/us/products/2980157>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

Your advantages

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

Commercial data

Item number	2980157
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C461
Product key	CK6223
Catalog page	Page 327 (C-7-2013)
GTIN	4017918727505
Weight per piece (including packing)	29.59 g
Weight per piece (excluding packing)	27.75 g
Customs tariff number	85364190
Country of origin	DE

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



2980157

<https://www.phoenixcontact.com/us/products/2980157>

Technical data

Product properties

Product type	Solid-state relay module
Product family	PLC-INTERFACE
Application	Output function
Operating mode	100% operating factor

Insulation characteristics

Insulation	Basic insulation
------------	------------------

Insulation characteristics: Standards/regulations

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	0.05 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)

Input data

Nominal input voltage U_N	5 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	4 V DC ... 6 V DC
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
Protective circuit	Reverse polarity protection; Polarity protection diode Freewheeling diode; Freewheeling diode
Transmission frequency	300 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
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-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection

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



2980157

<https://www.phoenixcontact.com/us/products/2980157>

Connection data

Input side

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14

Output side

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0 (Housing)

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

Standards/regulations

Standards/regulations	IEC 60664
	EN 50178

Mounting

Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

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



2980157

<https://www.phoenixcontact.com/us/products/2980157>

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com