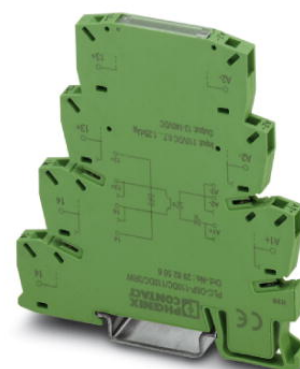


PLC-OSP-110DC/ 24DC/ 3RW


Order No.: 2980526



6.2 mm PLC solid-state relay with spring-cage connection for railway applications, 110 V DC input voltage, input voltage range from $0.7 \times U_N$ to $1.25 \times U_N$, temperature range from -25°C to $+70^\circ\text{C}$



Commercial data

EAN	 4 046356 122436
Pack	10 Pcs.
Customs tariff	85364900
Product key	106243
Catalog page information	Page 117 (IF-2011)

Product notes

WEEE/RoHS-compliant since:
04/11/2006



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Technical data

Input data

Nominal input voltage U_N	110 V DC
Input voltage range in reference to U_N	$0.7 \dots 1.25$ ($t < 1 \text{ s} = 0.6 \dots 1.4 \times U_N$)
Switching threshold "0" signal in reference to U_N	≤ 0.3

Switching threshold "1" signal in reference to U_N	≥ 0.6
Typical input current at U_N	3 mA
Typical response time	80 μ s
Typical turn-off time	600 μ s
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 nominal voltage	24 V DC
Output nominal voltage range	3 V DC ... 33 V DC ($t < 1 \text{ s} = 1.40 \times U_N$)
Limiting continuous current	3 A (see derating curve)
Surge voltage protection	> 33 V DC
Voltage drop at max. limiting continuous current	< 200 mV
Output circuit	2-wire, floating
Type of protection	Protection against polarity reversal
	Surge protection
Protective circuit/component	Polarity protection diode
	Suppressor diode

Connection data

Connection method	Spring-cage connection
Stripping length	8 mm
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 data

Width	6.2 mm
Height	80 mm
Depth	86 mm
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Mounting position	Any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Degree of protection	IP20
Inflammability class according to UL 94	V0
Name	Air and creepage distances between the power circuits
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage / insulation	4 kV / basic insulation
Rated insulation voltage	250 V
Pollution degree	2
Surge voltage category	III

Certificates / Approvals

Certification CUL, CUL Listed, GL, UL, UL Listed

Accessories

Item	Designation	Description
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Assembly

0801762	NS 35/ 7,5 CU UNPERF 2000MM	DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m
0801733	NS 35/ 7,5 PERF 2000MM	DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm
0801681	NS 35/ 7,5 UNPERF 2000MM	DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m
0801377	NS 35/ 7,5 V2A UNPERF 2000MM	DIN rail, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver
1201756	NS 35/15 AL UNPERF 2000MM	DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm
1201895	NS 35/15 CU UNPERF 2000MM	DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m
1201730	NS 35/15 PERF 2000MM	DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm
1201714	NS 35/15 UNPERF 2000MM	DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

1201798	NS 35/15-2,3 UNPERF 2000MM	DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m
2966841	PLC-ATP BK	Separating plate, 2 mm thick, required at the start and end of a PLC terminal strip. Furthermore, it is used for: visual separation of groups, safe isolation of different voltages of neighboring PLC relays in acc. with DIN VDE 0106-101, isolation

Bridges

2966812	FBST 6-PLC BU	Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: blue
2966825	FBST 6-PLC GY	Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: gray
2966236	FBST 6-PLC RD	Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: red
2967688	FBST 8-PLC GY	Single plug-in bridge, Length: 8 mm, Number of positions: 2, Color: gray
2966692	FBST 500-PLC BU	Continuous plug-in bridge, Length: 500 mm, Color: blue
2966838	FBST 500-PLC GY	Continuous plug-in bridge, Length: 500 mm, Color: gray
2966786	FBST 500-PLC RD	Continuous plug-in bridge, Length: 500 mm, Color: red

General

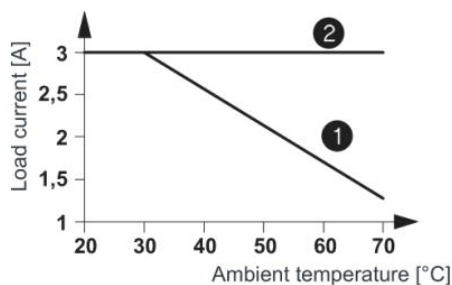
2966508	PLC-ESK GY	Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5
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Tools

1204517	SZF 1-0,6X3,5	Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip
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Drawings

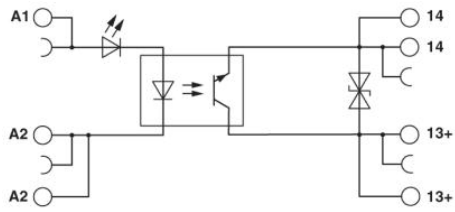
Diagram



- ① In rows with zero spacing
- ② in rows with > 20 mm spacing

The illustration shows the load current as function of the ambient temperature range PLC-OSP-.../24DC/3RW. Duty cycle: 100% operating factor

Circuit diagram



Connection data incl. use groups





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