

PLC-RSP- 24DC/21-21


Order No.: 2912507



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PLC relay, consisting of basic terminal block PLC-BSP.../21-21 with spring-cage connection and pluggable miniature relay with power contact, for assembly on DIN rail NS 35/7.5, 2 PDT, input voltage 24 V DC



Commercial data	
EAN	4  046356 050913
Pack	10 pcs.
Customs tariff	85364190
Gross weight in pieces	0.06406 KG
Net weight per piece (exclusive packing)	0.06306 KG
Catalog page information	Page 83 (IF-2011)

Product notes

WEEE/RoHS-compliant since:
03/03/2006



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Technical data	
Coil side	
Nominal input voltage U_N	24 V DC
Nominal input current at U_{IN}	18 mA
Typical response time	8 ms

Typical release time	10 ms
Operating voltage display	Yellow LED
Protective circuit	Protection against polarity reversal Polarity protection diode
	Free-wheeling diode Damping diode

Contact side

Contact type	Single contact, 2-PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC (The separating plate PLC-ATP should be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or ...FBST 500...)
Minimum switching voltage	5 V AC/DC (at 10 mA)
Maximum inrush current	15 A (300 ms)
Min. switching current	10 mA (At 5 V)
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	85 W (for 48 V DC)
	60 W (for 60 V DC)
	44 W (for 110 V DC)
	60 W (for 220 V DC)
	1500 VA (for 250 V AC)

General data

Width	14 mm
Height	80 mm
Depth	94 mm
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Operating mode	100% operating factor
Mechanical service life	3 x 10 ⁷ cycles
Inflammability class according to UL 94	V0
Name	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage / insulation	6 kV (safe isolation: control side / contact side)

Pollution degree	2
Surge voltage category	III
Mounting position	Any
Assembly instructions	In rows with zero spacing

Connection data

Connection method	Spring-cage connection
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
Stripping length	8 mm

Certificates / Approvals



Certification

cULus Listed, cULus Recognized, GL

Certifications applied for:

Certification Ex:

Accessories

Item	Designation	Description
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
2966236	FBST 6-PLC RD	Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: red
2966236	FBST 6-PLC RD	Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: red
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

Marking

1053001	ZB 10:UNBEDRUCKT	Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 10.2 mm, Lettering field: 10.5 x 10.15 mm
1053014	ZB10,LGS:FORTL.ZAHLEN	Zack marker strip, Strip, white, labeled, Can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 991 - 1000, Mounting type: Snap into tall marker groove, For terminal block width: 10.2 mm
5060883	ZB10/WH-100:UNBEDRUCKT	Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 10.2 mm

Plug/Adapter

2299660	PLC-V8L/FLK14/OUT	V8L-OUTPUT adapter for eight 14 mm PLC Interfaces (2 PDTs, etc./see "Supplementary Products"). 14-pos. flat-ribbon cable connection for the PLC system cabling, control logic: Plus switching
2304306	PLC-V8L/FLK14/OUT/M	V8L-OUTPUT adapter for eight 14 mm PLC interfaces (2 PDTs, etc./see "Supplementary Products"). 14-pos. flat-ribbon cable connection for the PLC system cabling, control logic: Minus switching

Power terminal block

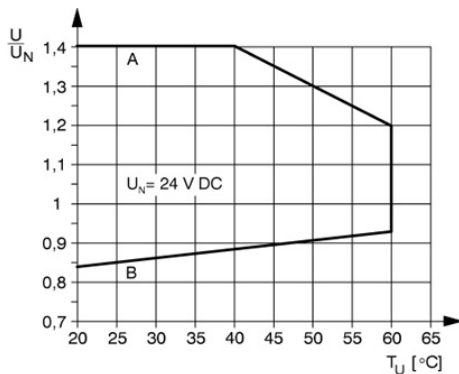
2966508	PLC-ESK GY	Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5
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Tools

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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Diagrams/Drawings

Diagram

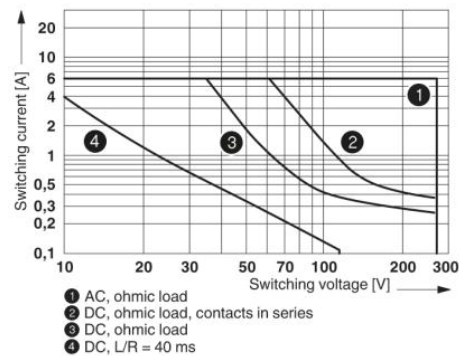


Curve A

Maximum permissible continuous voltage U_{max} with limiting continuous current on the contact side (see relevant technical data)

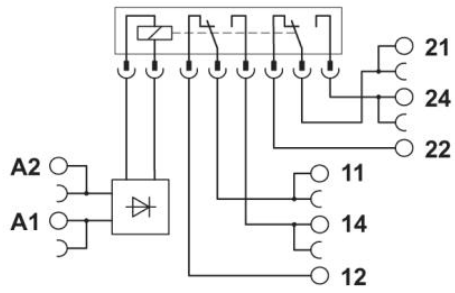
Curve B

Minimum permissible operate voltage U_{op} after pre-excitation (see relevant technical data)



Interrupting rating

Circuit diagram



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