

# Relay Module - PLC-RPT- 24DC/21-21 - 2900330

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PLC-INTERFACE, consisting of PLC-BPT.../21-21 basic terminal block with Push-in connection and plug-in miniature relay with power contact, for mounting on NS 35/7,5 DIN rail, 2 PDTs, input voltage 24 V DC

The figure shows a version with a screw connection

## Product Features

- Narrow design
- Efficient connection to system cabling using V8 adapter
- RT III sealed relay
- Safe isolation according to DIN EN 50178 between coil and contact
- Integrated input circuit and interference suppression circuit
- Functional plug-in bridges



## Key commercial data

package_quantity	10
GTIN	4046356509893

## Technical data

Note:

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

Width	14 mm
Height	80 mm
Depth	94 mm

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

### Coil side

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

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## Technical data

### Coil side

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

### Contact side

<b>Contact type</b>	2 PDT
<b>Contact material</b>	AgNi
<b>Maximum switching voltage</b>	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...)
<b>Minimum switching voltage</b>	5 V AC/DC (at 10 mA)
<b>Maximum inrush current</b>	15 A (300 ms)
<b>Min. switching current</b>	10 mA (At 5 V)
<b>Limiting continuous current</b>	6 A
<b>Interrupting rating (ohmic load) max.</b>	140 W (at 24 V DC)
<b>Interrupting rating (ohmic load) max.</b>	85 W (at 48 V DC)
<b>Interrupting rating (ohmic load) max.</b>	60 W (at 60 V DC)
<b>Interrupting rating (ohmic load) max.</b>	44 W (at 110 V DC)
<b>Interrupting rating (ohmic load) max.</b>	60 W (at 220 V DC)
<b>Interrupting rating (ohmic load) max.</b>	1500 VA (for 250 V AC)

### General

<b>Operating mode</b>	100% operating factor
<b>Mechanical service life</b>	3 x 10 <sup>7</sup> cycles
<b>Inflammability class according to UL 94</b>	V0
<b>Name</b>	Standards/regulations
<b>Standards/regulations</b>	IEC 60664
<b>Standards/regulations</b>	EN 50178
<b>Standards/regulations</b>	IEC 62103
<b>Rated surge voltage / insulation</b>	6 kV (safe isolation: control side / contact side)
<b>Pollution degree</b>	2
<b>Surge voltage category</b>	III
<b>Mounting position</b>	Any
<b>Assembly instructions</b>	In rows with zero spacing

### Connection data

<b>Connection method</b>	Push-in connection
<b>Conductor cross section solid min.</b>	0.14 mm <sup>2</sup>
<b>Conductor cross section solid max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section stranded min.</b>	0.14 mm <sup>2</sup>
<b>Conductor cross section stranded max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section AWG/kcmil min.</b>	26

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## Technical data

### Connection data

<b>Conductor cross section AWG/kcmil max</b>	14
<b>Stripping length</b>	8 mm

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27371001
<b>eCl@ss 4.1</b>	27371001
<b>eCl@ss 5.0</b>	27371001
<b>eCl@ss 5.1</b>	27371001
<b>eCl@ss 6.0</b>	27371001
<b>eCl@ss 7.0</b>	27371001
<b>eCl@ss 8.0</b>	27371001

### ETIM

<b>ETIM 4.0</b>	EC000196
<b>ETIM 5.0</b>	EC000196

### UNSPSC

<b>UNSPSC 6.01</b>	30211916
<b>UNSPSC 7.0901</b>	39121515
<b>UNSPSC 11</b>	39121515
<b>UNSPSC 12.01</b>	39121515
<b>UNSPSC 13.2</b>	39121515

## approvals

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

### Approval details


<b>GL</b>
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<b>UL Listed</b>
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<b>cUL Listed</b>
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## Relay Module - PLC-RPT- 24DC/21-21 - 2900330

approvals

UL Recognized 

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



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### 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



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## accessories

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### Terminal marking

ZB10/WH-100:UNBEDRUCKT - 5060883



ZB 10:UNBEDRUCKT - 1053001



### Labeled terminal marker

ZB10,LGS:FORTL.ZAHLEN - 1053014



### Partition plate

PLC-ATP BK - 2966841



### Power module

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## accessories

PLC-ESK GY - 2966508



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## Screwdriver tools

SZF 1-0,6X3,5 - 1204517



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## Controller board

PLC-V8L/FLK14/OUT - 2299660



PLC-V8L/FLK14/OUT/M - 2304306



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## Bridge

FBST 500-PLC RD - 2966786



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### accessories

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



FBST 6-PLC RD - 2966236





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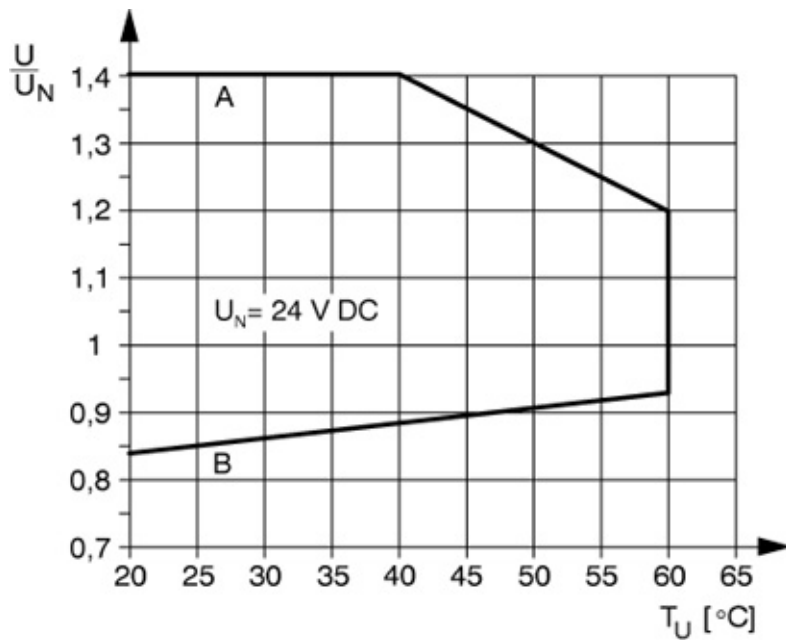
accessories

FBST 6-PLC RD - 2966236



## Drawings

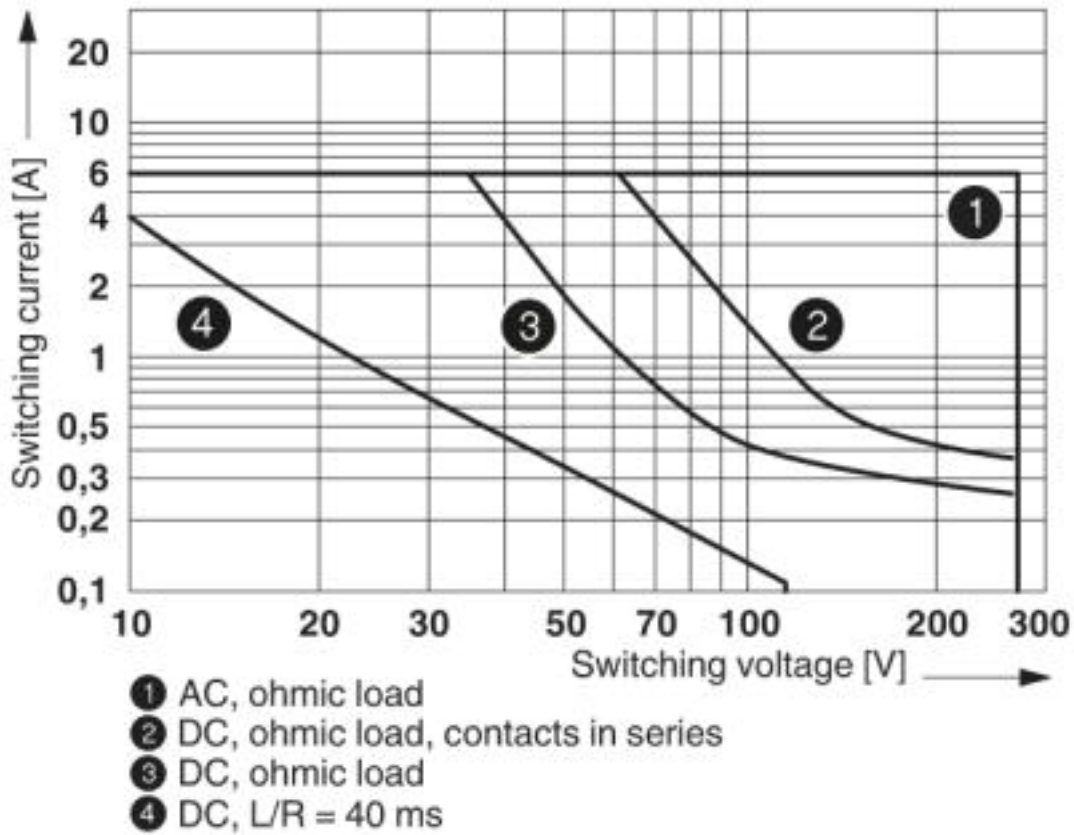
Diagram



Curve A Maximum permissible continuous voltage  $U_{\text{max}}$  with limiting continuous current on the contact side (see relevant technical data)  
Curve B Minimum permissible operate voltage  $U_{\text{op}}$  after pre-excitation (see relevant technical data)

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Diagram



Interrupting rating

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Circuit diagram

