

# Relay Module - PLC-RSC- 48DC/21-21 - 2967248

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PLC relay, consisting of base terminal block PLC-BSC.../21 with screw connection and pluggable miniature relay with power contact, for assembly on DIN rail NS 35/7.5, 2 PDT, input voltage 48 V DC

The illustration shows the version PLC-RSC- 24DC/21-21

## 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

<b>package_quantity</b>	10
<b>GTIN</b>	4017918163495

## Technical data

Note:

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

<b>Width</b>	14 mm
<b>Height</b>	80 mm
<b>Depth</b>	94 mm

### Ambient conditions

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

### Coil side

<b>Nominal input voltage <math>U_N</math></b>	48 V DC
<b>Nominal input current at <math>U_{IN}</math></b>	20 mA
<b>Typical response time</b>	8 ms

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## Technical data

### Coil side

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

### Contact side

Contact type	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)
Interrupting rating (ohmic load) max.	85 W (at 48 V DC)
Interrupting rating (ohmic load) max.	60 W (at 60 V DC)
Interrupting rating (ohmic load) max.	44 W (at 110 V DC)
Interrupting rating (ohmic load) max.	60 W (at 220 V DC)
Interrupting rating (ohmic load) max.	1500 VA (for 250 V AC)

### General

Test voltage relay winding/relay contact	4 kV AC (50 Hz, 1 min.)
Test voltage PDT/PDT	2.5 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	3 x 10 <sup>7</sup> cycles
Inflammability class according to UL 94	V0
Name	Standards/regulations
Standards/regulations	IEC 60664
Standards/regulations	EN 50178
Standards/regulations	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	Screw connection
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.14 mm <sup>2</sup>

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## Technical data

### Connection data

Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm
Screw thread	M3

## 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	EC000196
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC000196

### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

## approvals

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

### Approval details



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approvals

cUL Recognized 

GOST 

cUL Listed 

GL

cULus Recognized 

cULus Listed 

accessories

## Mounting rail

NS 35/ 7,5 V2A UNPERF 2000MM - 0801377



NS 35/ 7,5 PERF 2000MM - 0801733



## Relay Module - PLC-RSC- 48DC/21-21 - 2967248

### accessories

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



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



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## accessories

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NS 35/ 7,5 UNPERF 2000MM - 0801681



## Terminal marking

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ZB10/WH-100:UNBEDRUCKT - 5060883



ZB 10:UNBEDRUCKT - 1053001



## Labeled terminal marker

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ZB10,LGS:FORTL.ZAHLEN - 1053014



## Partition plate

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PLC-ATP BK - 2966841



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accessories

## Power module

PLC-ESK GY - 2966508



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## Screwdriver tools

SZF 1-0,6X3,5 - 1204517



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## Bridge

FBST 500-PLC RD - 2966786



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FBST 500-PLC BU - 2966692



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FBST 500-PLC GY - 2966838



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### accessories

FBST 6-PLC RD - 2966236



FBST 6-PLC BU - 2966812



FBST 6-PLC GY - 2966825



FBST 8-PLC GY - 2967688



FBST 14-PLC BK - 2967691

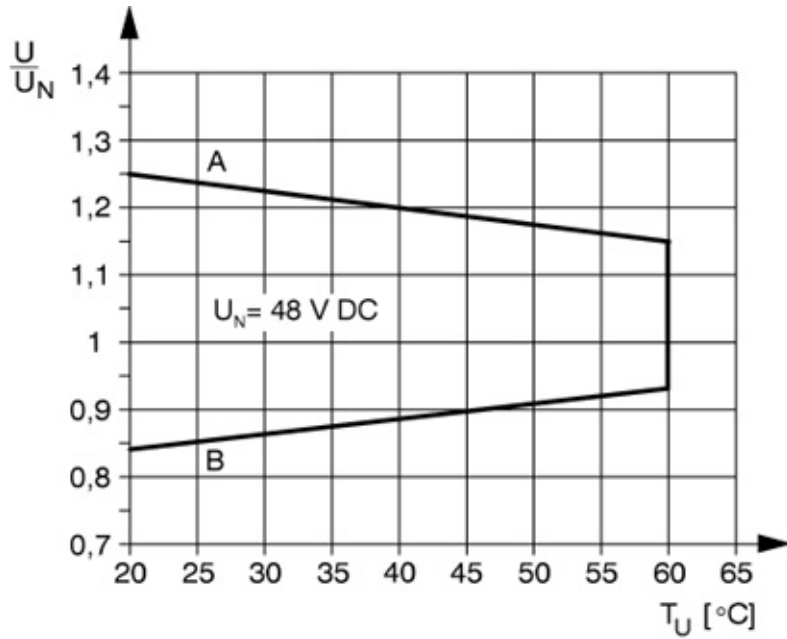


### Drawings



# Relay Module - PLC-RSC- 48DC/21-21 - 2967248

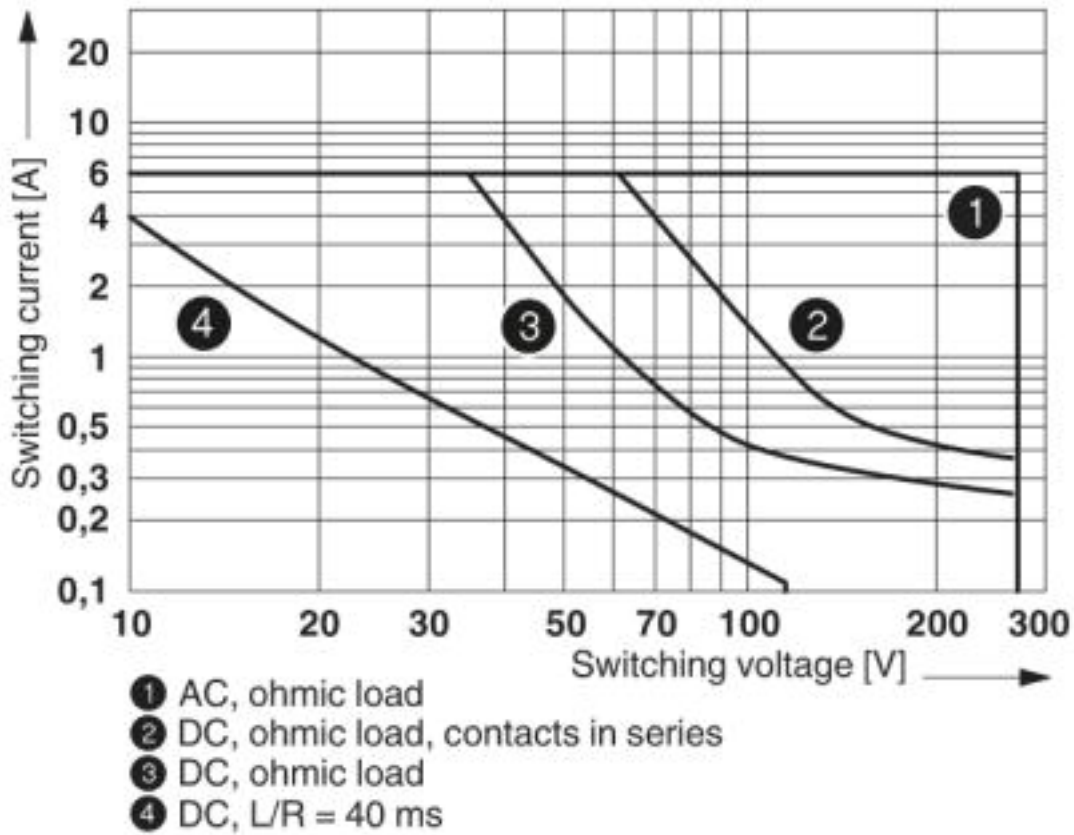
Diagram



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  $U_{\text{op}}$  after pre-excitation (see relevant technical data)

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Diagram



Interrupting rating

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Circuit diagram

