

# Relay Module - PLC-RSC- 24UC/21 - 2966184

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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, 1 PDT, input voltage 24 V AC/DC

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

## Product Features

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



## Key commercial data

package_quantity	10
GTIN	4017918130725

## Technical data

Note:

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

Width	6.2 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 AC/DC
Nominal input current at $U_{IN}$	11 mA (at $U_N = 24$ V AC)
Nominal input current at $U_{IN}$	8.5 mA (at $U_N = 24$ V DC)

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## Technical data

### Coil side

Typical response time	6 ms
Typical release time	15 ms
Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier Bridge rectifier

### Contact side

Contact type	1 PDT
Contact material	AgSnO
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 (at 100 mA)
Maximum inrush current	(on request)
Min. switching current	10 mA (at 12 V)
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
Interrupting rating (ohmic load) max.	20 W (at 48 V DC)
Interrupting rating (ohmic load) max.	18 W (at 60 V DC)
Interrupting rating (ohmic load) max.	23 W (at 110 V DC)
Interrupting rating (ohmic load) max.	40 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.)
Operating mode	100% operating factor
Mechanical service life	2 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
Pollution degree	3
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>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	26

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## Technical data

### Connection data

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

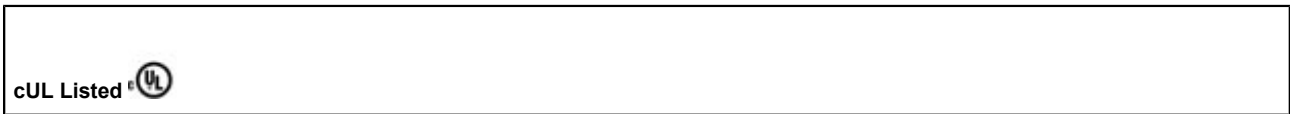
UL Recognized / UL Listed / cUL Recognized / GOST / cUL Listed / GL / UL Listed / cUL Listed / cULus Recognized / cULus Listed /

### Approval details



# Relay Module - PLC-RSC- 24UC/21 - 2966184

## approvals



## accessories

### Mounting rail

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



## Relay Module - PLC-RSC- 24UC/21 - 2966184

### accessories

NS 35/ 7,5 PERF 2000MM - 0801733



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



## Relay Module - PLC-RSC- 24UC/21 - 2966184

### accessories

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NS 35/15 PERF 2000MM - 1201730



NS 35/ 7,5 UNPERF 2000MM - 0801681



### Power module

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PLC-ESK GY - 2966508



### Partition plate

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PLC-ATP BK - 2966841



### Screwdriver tools

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SZF 1-0,6X3,5 - 1204517



## Relay Module - PLC-RSC- 24UC/21 - 2966184

accessories

### Terminal marking

ZB 6:UNBEDRUCKT - 1051003



ZB 6/WH-100:UNBEDRUCKT - 5060935



### Labeled terminal marker

ZB 6,LGS:FORTL.ZAHLEN - 1051016



### Bridge

FBST 500-PLC RD - 2966786



FBST 500-PLC BU - 2966692



## Relay Module - PLC-RSC- 24UC/21 - 2966184

### accessories

FBST 500-PLC GY - 2966838



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FBST 6-PLC RD - 2966236



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FBST 6-PLC BU - 2966812



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FBST 6-PLC GY - 2966825



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FBST 8-PLC GY - 2967688



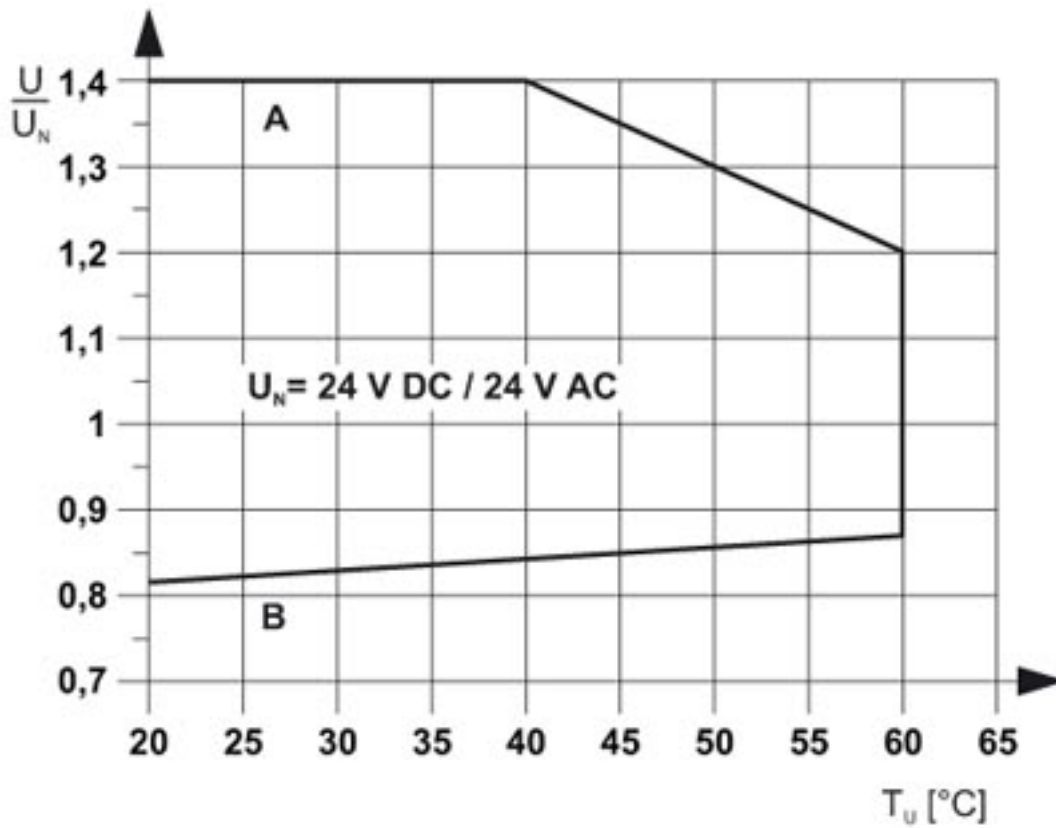
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### Drawings



# Relay Module - PLC-RSC- 24UC/21 - 2966184

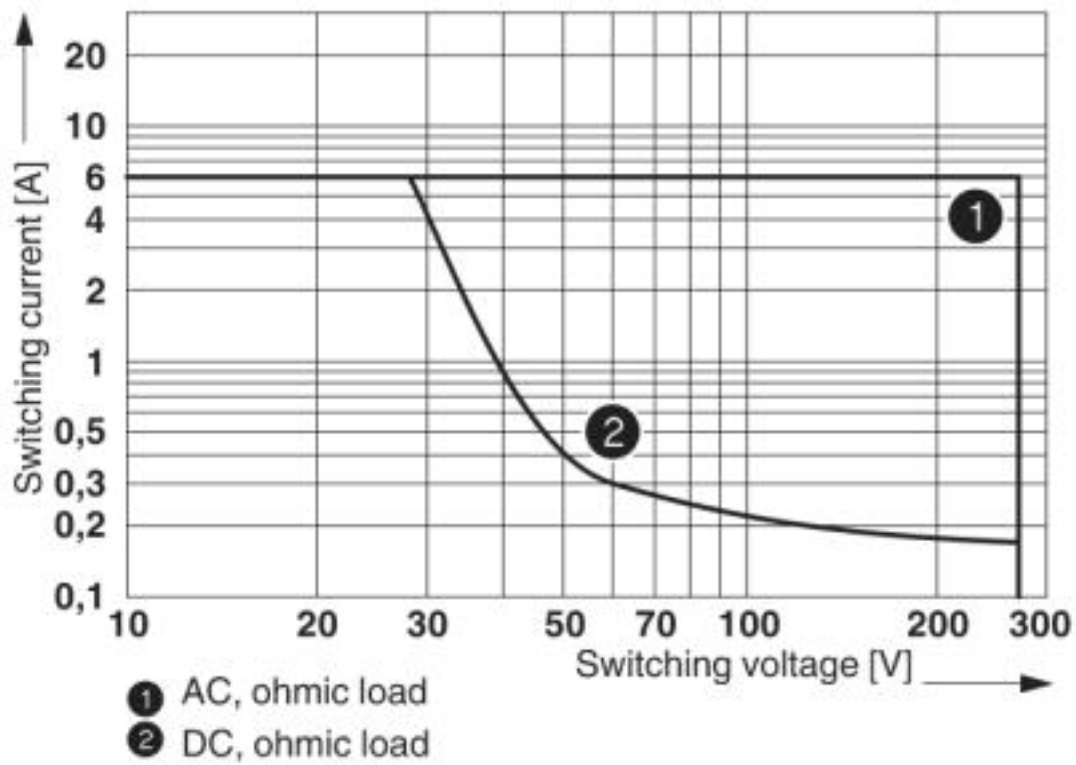
Diagram



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)

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Diagram



Interrupting rating

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Circuit diagram

