

# Relay Module - PLC-RPT- 12DC/21-21 - 2900329

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



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 12 V DC

The figure shows a version with a screw connection

### Your advantages

- Slim 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

<b>package_quantity</b>	10
<b>GTIN</b>	4046356507196

### Technical data

#### Note

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

#### 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 U<sub>N</sub></b>	12 V DC
<b>Typical input current at U<sub>N</sub></b>	33 mA
<b>Typical response time</b>	8 ms

# Relay Module - PLC-RPT- 12DC/21-21 - 2900329

## Technical data

### Coil side

Typical release time	10 ms
Protective circuit	Reverse polarity protection Polarity protection diode
Protective circuit	Free-wheeling diode Damping diode
Operating voltage display	Yellow LED
Power dissipation for nominal condition	0.4 W

### Contact side

Contact type	2 PDT
Type of switch contact	Single contact
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)
Min. switching current	10 mA (At 5 V)
Maximum inrush current	15 A (300 ms)
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)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	0.2 A (at 250 V, DC13)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	3 A (at 24 V, AC15)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	3 A (at 120 V, AC15)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	3 A (at 250 V, AC15)

### Connection data input side

Connection name	Coil side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	26 ... 14

### Connection data output side

Connection name	Contact side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

# Relay Module - PLC-RPT- 12DC/21-21 - 2900329

## Technical data

### Connection data output side

<b>Conductor cross section AWG</b>	26 ... 14
------------------------------------	-----------

### General

<b>Operating mode</b>	100% operating factor
<b>Degree of protection</b>	RT III (Relay)
<b>Degree of protection</b>	IP20 (Relay socket)
<b>Mechanical service life</b>	3 x 10 <sup>7</sup> cycles
<b>Flammability rating according to UL 94</b>	V0
<b>Mounting position</b>	any
<b>Assembly instructions</b>	In rows with zero spacing

### Standards and Regulations

<b>Connection in acc. with standard</b>	CUL
<b>Designation</b>	Standards/regulations
<b>Standards/regulations</b>	IEC 60664
<b>Standards/regulations</b>	EN 50178
<b>Rated surge voltage</b>	6 kV
<b>Insulation</b>	Safe isolation of input/output
<b>Degree of pollution</b>	2
<b>Overvoltage category</b>	III
<b>Flammability rating according to UL 94</b>	V0

### Environmental Product Compliance

<b>China RoHS</b>	Environmentally Friendly Use Period = 50
<b>China RoHS</b>	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

<b>eCl@ss 5.0</b>	27371601
<b>eCl@ss 5.1</b>	27371601
<b>eCl@ss 6.0</b>	27371601
<b>eCl@ss 7.0</b>	27371601
<b>eCl@ss 8.0</b>	27371601
<b>eCl@ss 9.0</b>	27371601

### ETIM

<b>ETIM 2.0</b>	EC001437
<b>ETIM 3.0</b>	EC001437
<b>ETIM 4.0</b>	EC001437
<b>ETIM 5.0</b>	EC001437
<b>ETIM 6.0</b>	EC001437

### UNSPSC

# Relay Module - PLC-RPT- 12DC/21-21 - 2900329

## Classifications

### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39122334

## Approvals

UL Listed / cUL Listed / UL Recognized / cUL Recognized / EAC / RC FRT / EAC / DNV GL / cULus Recognized / cULus Listed /

### Approval details

UL Listed

cUL Listed

UL Recognized

cUL Recognized

EAC

RC FRT

ERC

DNV GL

cULus Recognized

cULus Listed

## Accessories

### DIN rail

## Relay Module - PLC-RPT- 12DC/21-21 - 2900329

### Accessories

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

---

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



## Relay Module - PLC-RPT- 12DC/21-21 - 2900329

### Accessories

---

NS 35/15 AL UNPERF 2000MM - 1201756



NS 35/15 PERF 2000MM - 1201730



NS 35/ 7,5 UNPERF 2000MM - 0801681

---

### Terminal marking

ZB10/WH-100:UNBEDRUCKT - 5060883



ZB 10:UNBEDRUCKT - 1053001



### Labeled terminal marker

---

# Relay Module - PLC-RPT- 12DC/21-21 - 2900329

## Accessories

ZB10,LGS:FORTL.ZAHLEN - 1053014



---

## Partition plate

PLC-ATP BK - 2966841



---

## Power module

PLC-ESK GY - 2966508



---

## Screwdriver tools

SZF 1-0,6X3,5 - 1204517



---

## Bridge

FBST 500-PLC RD - 2966786



# Relay Module - PLC-RPT- 12DC/21-21 - 2900329

## 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





# Relay Module - PLC-RPT- 12DC/21-21 - 2900329

## Accessories

FBST 6-PLC RD - 2966236

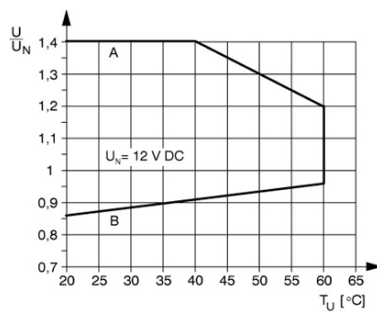


FBST 6-PLC RD - 2966236



## Drawings

### Diagram



### Curve A

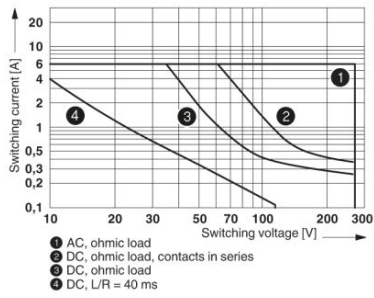
Maximum permissible continuous voltage  $U_{\text{max}}$  with limiting continuous current on the contact side (see relevant technical data)

### Curve B

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

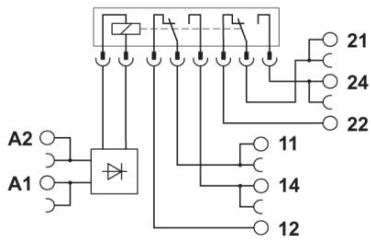
# Relay Module - PLC-RPT- 12DC/21-21 - 2900329

## Diagram



## Interrupting rating

## Circuit diagram



Phoenix Contact 2016 © - all rights reserved  
<http://www.phoenixcontact.com>