

REL-MR- 24DC/21-21 - Single relay

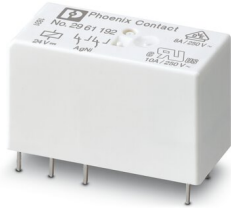


2961192

<https://www.phoenixcontact.com/us/products/2961192>

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 documentation. Our General Terms of Use for Downloads are valid.

Plug-in miniature power relay, with power contact, 2 changeover contacts, input voltage 24 V DC



Your advantages

- RT III-proof (wash-proof)
- Switching current of up to 8 A

Commercial Data

Item number	2961192
Packing unit	1 pc
Minimum order quantity	10 pc
Sales Key	C460
Product Key	CK6195
Catalog Page	Page 290 (C-5-2019)
GTIN	4017918158019
Weight per Piece (including packing)	16.748 g
Weight per Piece (excluding packing)	15.94 g
Customs tariff number	85364900
Country of origin	AT

REL-MR- 24DC/21-21 - Single relay



2961192

<https://www.phoenixcontact.com/us/products/2961192>

Technical Data

Product properties

Product type	Single relay
Set comprises	2967060 PLC-RSC- 24DC/21-21
	2967073 PLC-RSC- 24UC/21-21
	2967248 PLC-RSC- 48DC/21-21
	2912507 PLC-RSP- 24DC/21-21
	2912510 PLC-RSP- 24UC/21-21
	2912523 PLC-RSP- 48DC/21-21
	2900330 PLC-RPT- 24DC/21-21
	2900332 PLC-RPT- 24UC/21-21
	2900333 PLC-RPT- 48DC/21-21
	2967109 PLC-RSC- 24DC/ 1- 1/ACT
	2834481 PR1-RSC3-LDP-24DC/2X21
	2834562 PR1-RSP3-LDP-24DC/2X21
	2903334 RIF-1-RPT-LDP-24DC/2X21
2903350 RIF-1-RSC-LDP-24DC/2X21	
Operating mode	100% operating factor
Mechanical service life	3x 10 ⁷ cycles

Insulation characteristics

Insulation	Basic insulation
------------	------------------

Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	3

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.41 W
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (Contact/contact)	2.5 kV AC (50 Hz, 1 min., contact/contact)

Input data

Coil side

Nominal input voltage U _N	24 V DC
Input voltage range	15.6 V DC ... 59.52 V DC
Typical input current at U _N	17 mA
Typical response time	7 ms
Typical release time	3 ms
Coil resistance	1440 Ω ±10 % (at 20 °C)

REL-MR- 24DC/21-21 - Single relay

2961192

<https://www.phoenixcontact.com/us/products/2961192>

Output data

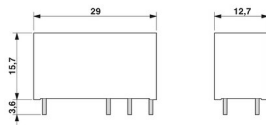
Switching

Contact type	2 changeover contacts
Type of switch contact	Single contact
Drive and function	monostable
Drive (polarity)	bipolar
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 10 mA)
Limiting continuous current	8 A
Maximum inrush current	25 A (20 ms)
Min. switching current	10 mA (At 5 V)
Interrupting rating (ohmic load) max.	192 W (at 24 V DC) 96 W (at 48 V DC) 60 W (at 60 V DC) 44 W (at 110 V DC) 60 W (at 220 V DC) 2000 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13) 0.2 A (at 250 V, DC13) 3 A (at 24 V, AC15) 3 A (at 120 V, AC15) 3 A (at 250 V, AC15)
Motor load according to UL 508	1/4 HP, 120 V AC 1/2 HP, 240 V AC

Connection data

Connection method	Plug / solder connection
-------------------	--------------------------

Dimensions

Dimensional drawing	
Width	12.7 mm
Height	29 mm
Depth	15.7 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	RT III
----------------------	--------

REL-MR- 24DC/21-21 - Single relay



2961192

<https://www.phoenixcontact.com/us/products/2961192>

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

Approvals

Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Standards and regulations

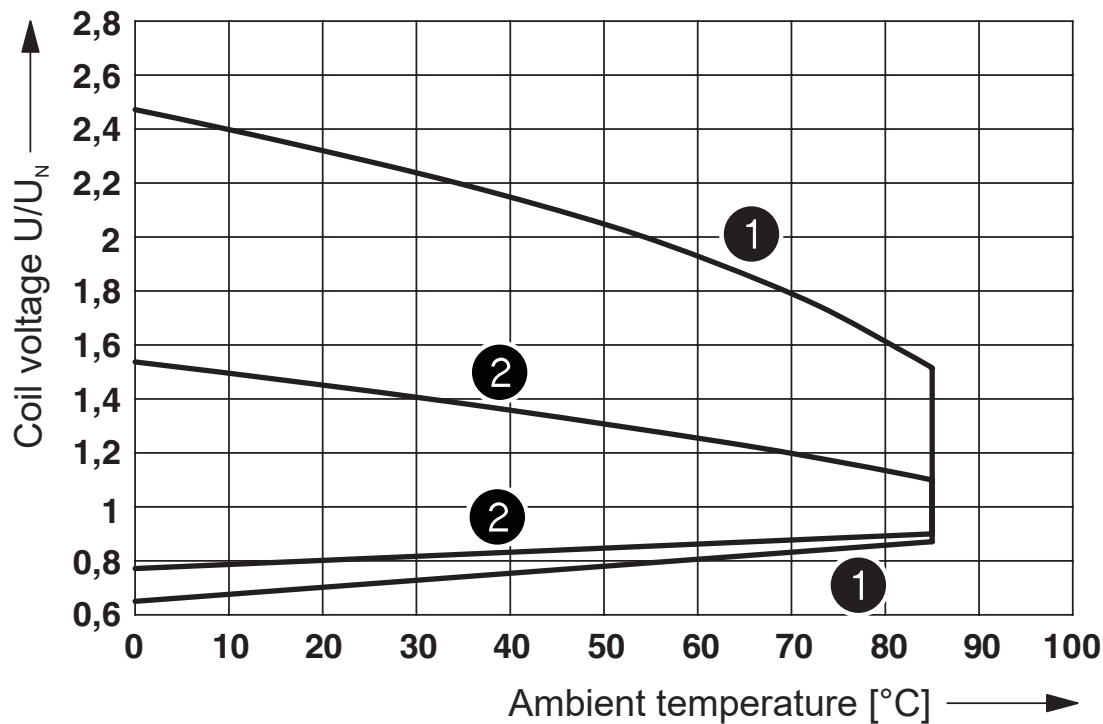
Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1

Mounting

Assembly instructions	Can be aligned without spacing (> 70 °C ≥ 2.5 mm)
Mounting position	any

Drawings

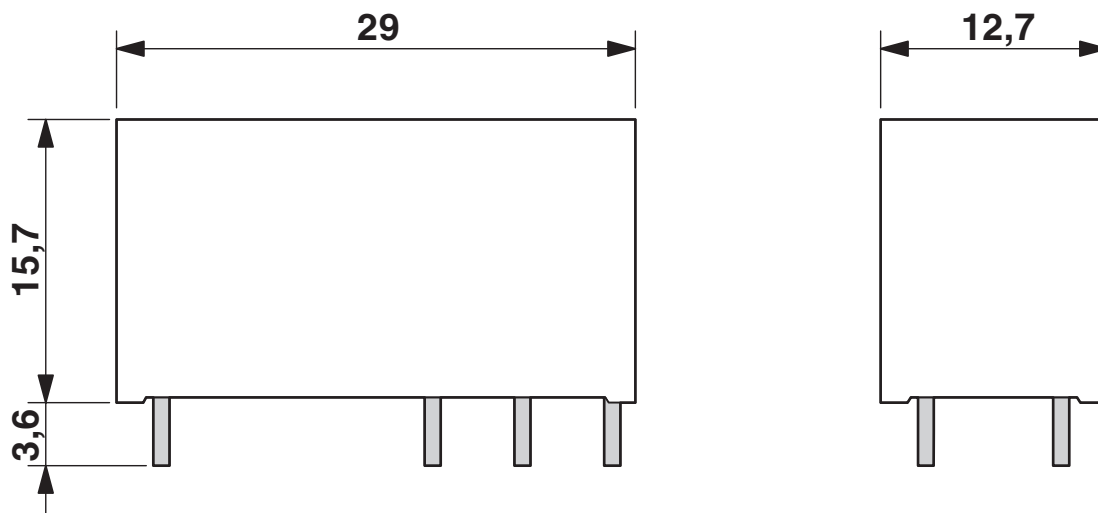
Diagram

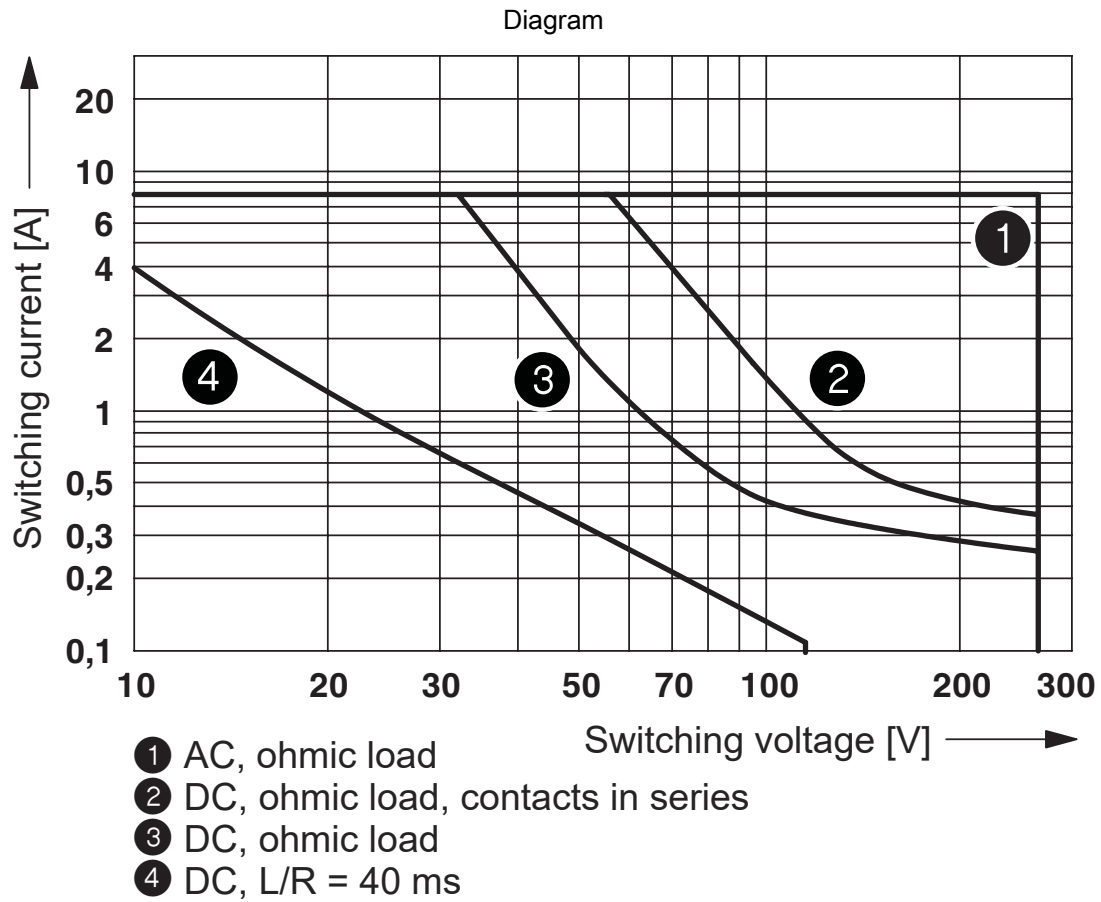


- ① DC coils
- ② AC coils

Operating voltage range

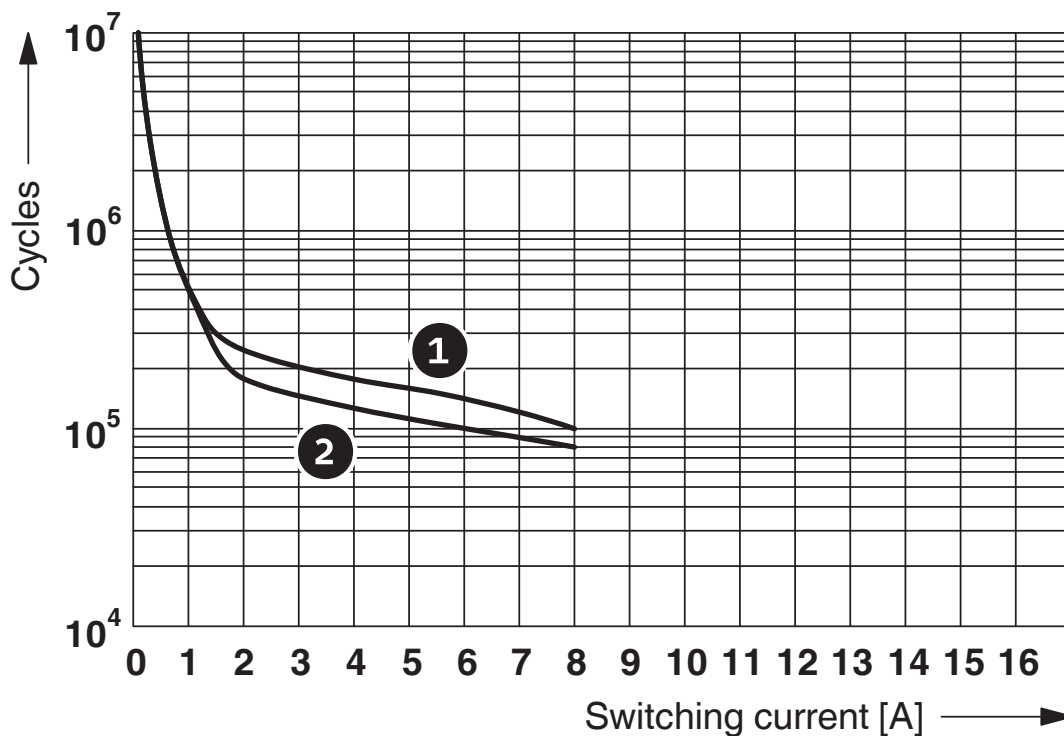
Dimensional drawing





Interrupting rating

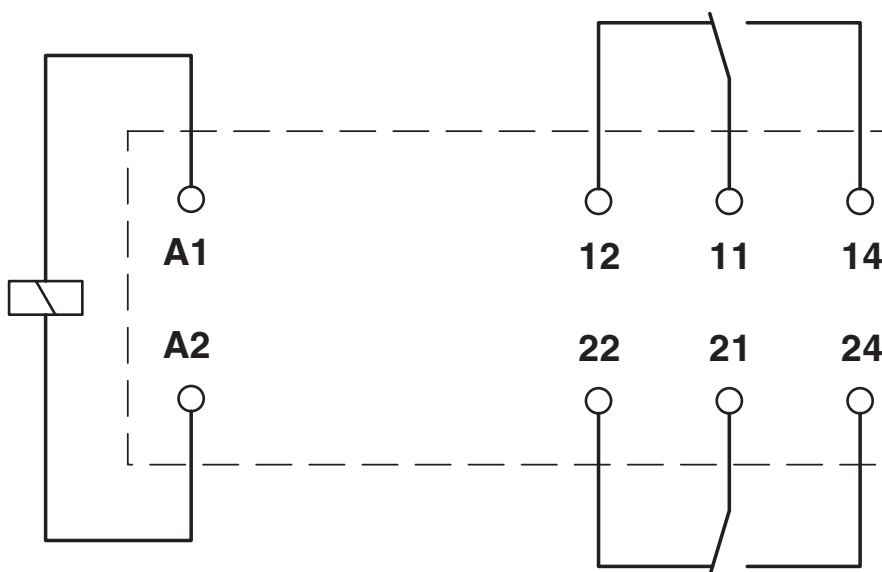
Diagram

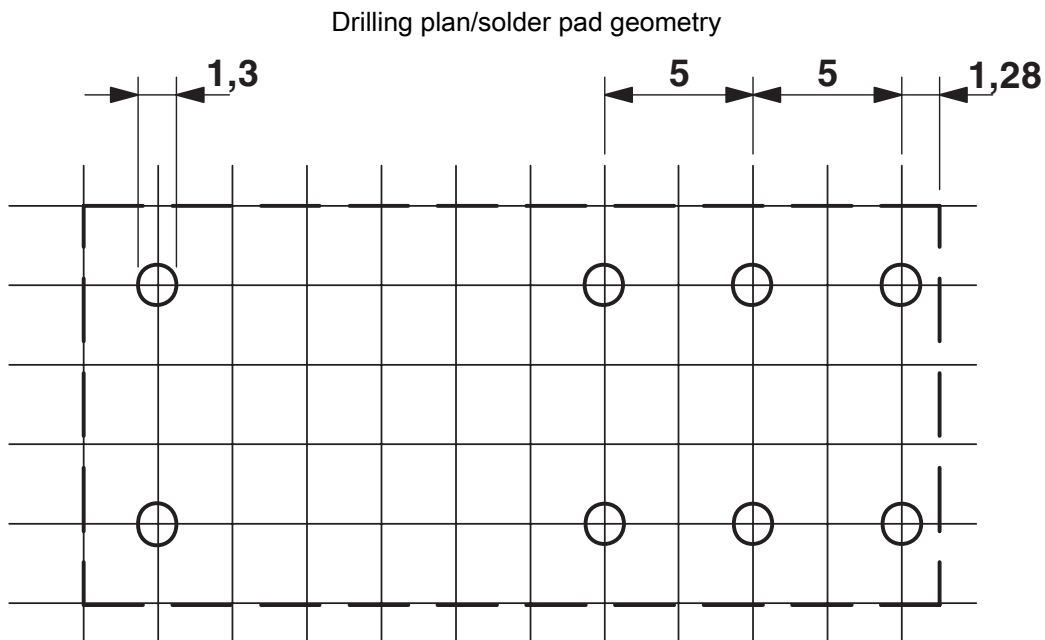


- ① 250 V AC, ohmic load (DC coils)
- ② 250 V AC, ohmic load (AC coils)

Electrical service life

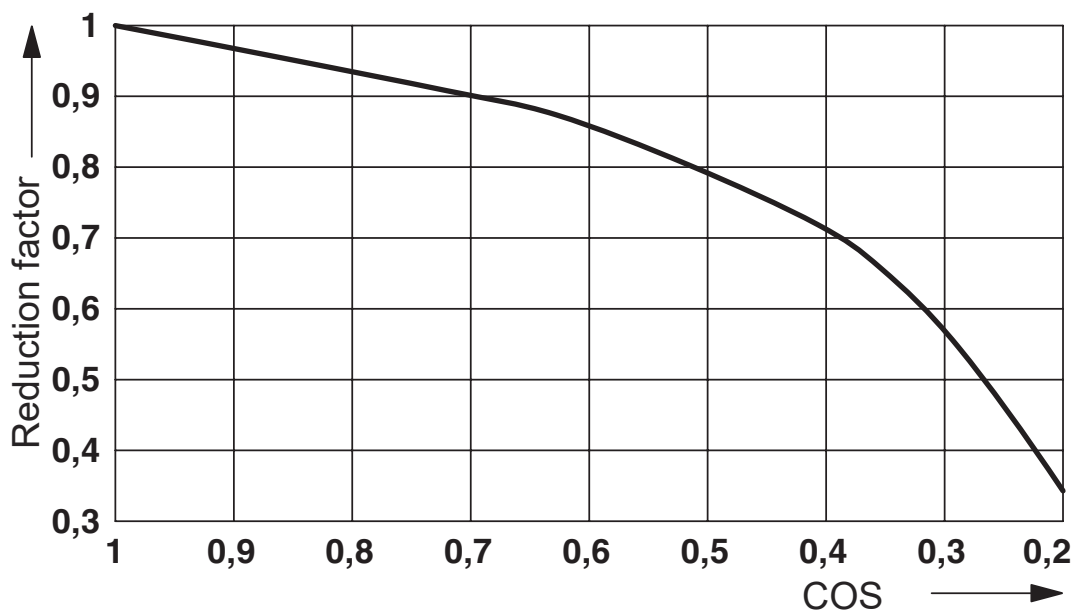
Circuit diagram





Basic pitch 2.5 mm

Diagram



Service life reduction factor

REL-MR- 24DC/21-21 - Single relay



2961192

<https://www.phoenixcontact.com/us/products/2961192>

Approvals



cUL Recognized
Approval ID: FILE E 228652



UL Recognized
Approval ID: FILE E 228652



EAC
Approval ID: TR_TS_D_00573_c



UL Recognized
Approval ID: FILE E 228652



EAC
Approval ID: RU*C-DE.*08.B.00010



VDE Zeichengenehmigung
Approval ID: 40007758



VDE Zeichengenehmigung
Approval ID: 40048281



PRS
Approval ID: TE/2109/880590/16



cUL Recognized
Approval ID: FILE E 228652



cUL Recognized
Approval ID: FILE E 172140



UL Recognized
Approval ID: FILE E 172140

REL-MR- 24DC/21-21 - Single relay



2961192

<https://www.phoenixcontact.com/us/products/2961192>

Classifications

ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

ETIM

ETIM 8.0	EC001437
----------	----------

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

REL-MR- 24DC/21-21 - Single relay



2961192

<https://www.phoenixcontact.com/us/products/2961192>

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

REL-MR- 24DC/21-21 - Single relay

2961192

<https://www.phoenixcontact.com/us/products/2961192>



Accessories

PLC-BPT- 24DC/21-21 - Relay base

2900283

<https://www.phoenixcontact.com/us/products/2900283>



14 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 24 V DC

PLC-BSC- 24DC/21-21 - Relay base

2967015

<https://www.phoenixcontact.com/us/products/2967015>



14 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 24 V DC

REL-MR- 24DC/21-21 - Single relay

2961192

<https://www.phoenixcontact.com/us/products/2961192>



PLC-BPT- 24UC/21-21 - Relay base

2900284

<https://www.phoenixcontact.com/us/products/2900284>



14 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 24 V AC/DC

PLC-BSC- 24UC/21-21 - Relay base

2967028

<https://www.phoenixcontact.com/us/products/2967028>



14 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 24 V AC/DC

REL-MR- 24DC/21-21 - Single relay

2961192

<https://www.phoenixcontact.com/us/products/2961192>



PLC-BPT- 48DC/21-21 - Relay base

2900285

<https://www.phoenixcontact.com/us/products/2900285>



14 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 48 V DC

PLC-BSC- 48DC/21-21 - Relay base

2967264

<https://www.phoenixcontact.com/us/products/2967264>



14 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 48 V DC

REL-MR- 24DC/21-21 - Single relay

2961192

<https://www.phoenixcontact.com/us/products/2961192>



PLC-BSC- 24DC/ 1- 1/ACT - Relay base

2967057

<https://www.phoenixcontact.com/us/products/2967057>



14 mm PLC basic terminal block for output functions with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 2 N/O contacts (1-1), input voltage 24 V DC

RIF-1-BPT/2X21 - Relay base

2900931

<https://www.phoenixcontact.com/us/products/2900931>



Relay base RIF-1..., for miniature power relay with 1 or 2 changeover contacts or solid-state relays of the same design, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

REL-MR- 24DC/21-21 - Single relay

2961192

<https://www.phoenixcontact.com/us/products/2961192>



RIF-1-BSC/2X21 - Relay base

2900930

<https://www.phoenixcontact.com/us/products/2900930>



RIF-1... relay base, for miniature power relay with 1 or 2 changeover contacts or identical solid-state relays, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

Phoenix Contact 2023 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com