

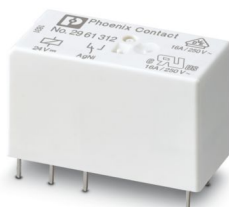
REL-MR- 24DC/21HC - Single relay



2961312

<https://www.phoenixcontact.com/ro/produse/2961312>

Vă rugăm să țineți cont de faptul că datele afișate în acest document PDF au fost generate din catalogul nostru online. Datele complete sunt disponibile în documentația pentru utilizator. În cazul descărcărilor, se aplică Termenii și condițiile generale de utilizare ale companiei noastre.



Plug-in miniature power relay, with power contact for high continuous currents, 1 changeover contact, input voltage 24 V DC

Avantajele dumneavoastră

- Switching current of up to 16 A

Date comerciale

Număr articol	2961312
Unitate de ambalare	10 Bucată
Cantitate minimă pentru comandă	10 Bucată
Cod de achiziție	08
Cod produs	CK6931
Pagina de catalog	Pagina 290 (C-5-2019)
GTIN	4017918187576
Greutate pe bucată (inclusiv ambalajul)	16,123 g
Greutate pe bucată (fără ambalaj)	12,91 g
Cod tarifar vamal	85364900
Țara de origine	AT

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Date tehnice

Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	3x 10 ⁷ cycles

Data management status

Date of last data management	02.05.2024
Article revision	02

Insulation characteristics

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)

Input data

Coil side

Nominal input voltage U _N	24 V DC
Input voltage range	15.6 V DC ... 57.6 V DC
Drive and function	monostable
Drive (polarity)	non-polarized
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)

Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Limiting continuous current	16 A
Maximum inrush current	50 A (20 ms)
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	384 W (at 24 V DC) 58 W (at 48 V DC)

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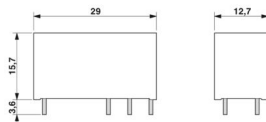
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	48 W (at 60 V DC)
	50 W (at 110 V DC)
	80 W (at 220 V DC)
	4000 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	6 A (at 24 V, AC15)
	6 A (at 120 V, AC15)
	6 A (at 250 V, AC15)
Motor load according to UL 508	1/2 HP, 120 V AC (N/O contact)
	1 HP, 240 V AC (N/O contact)
	1/3 HP, 120 V AC (N/C contact)
	3/4 HP, 240 V AC (N/C contact)
	1/4 HP, 200 ... 250 V AC

Connection data

Connection method	Plug / solder connection
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Dimensions

Dimensional drawing	
Width	12.7 mm
Height	29 mm
Depth	15.7 mm

Material specifications

Color	white (RAL 9010)
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Environmental and real-life conditions

Ambient conditions

Degree of protection	RT II
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

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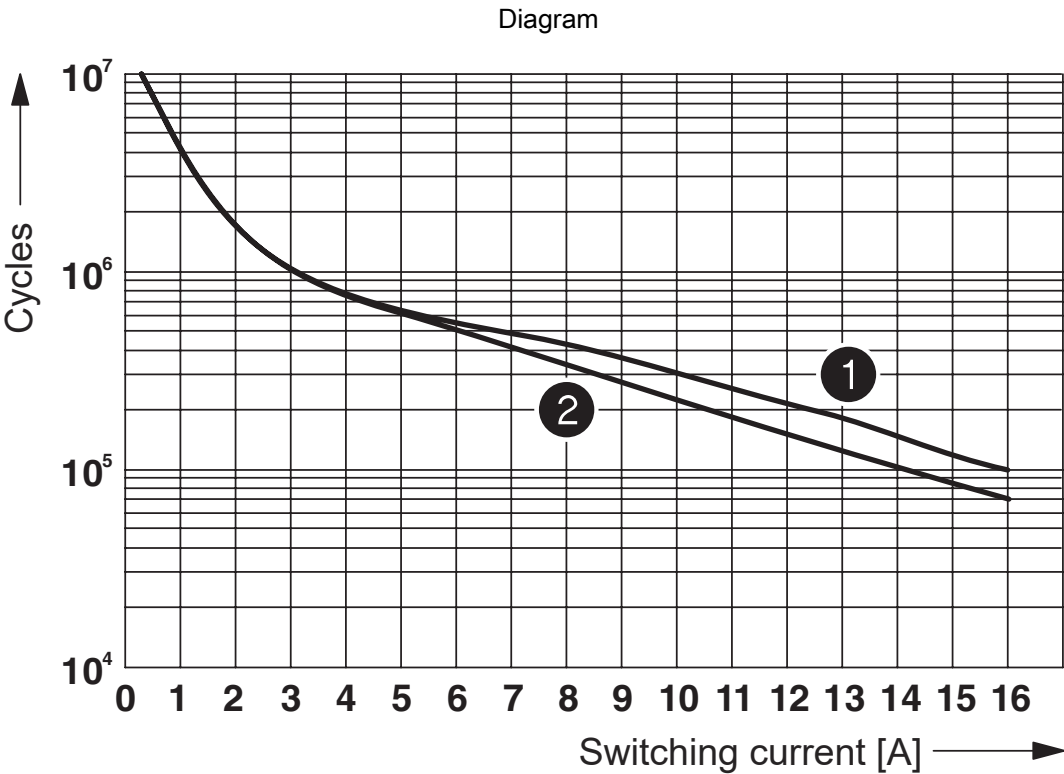
<https://www.phoenixcontact.com/ro/produse/2961312>

Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1

Mounting

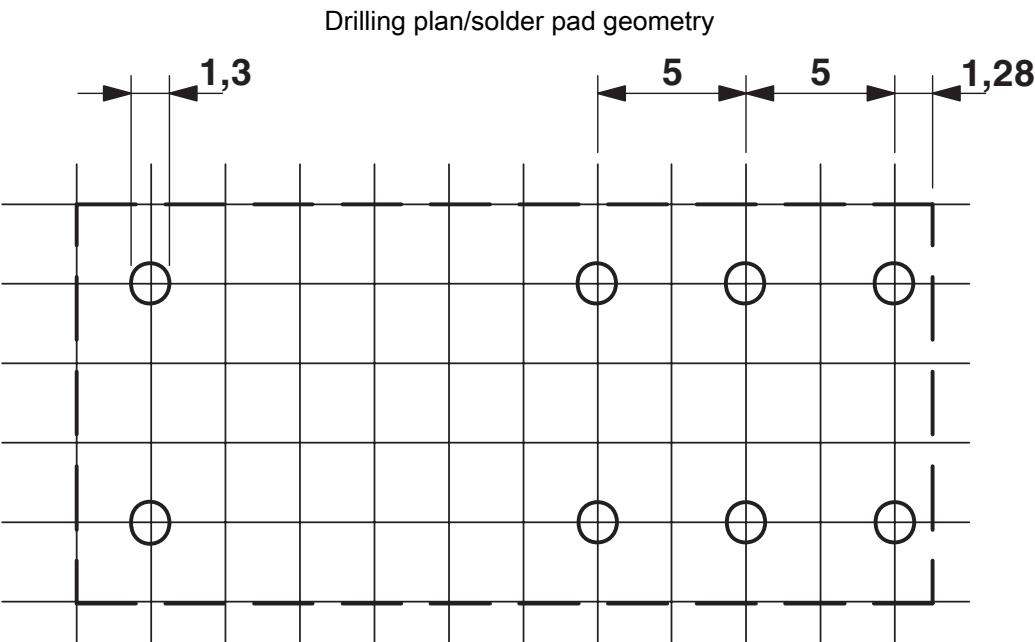
Assembly note	Can be aligned without spacing ($> 70\text{ }^{\circ}\text{C} \geq 2.5\text{ mm}$)
Mounting position	any

Desene



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

Electrical service life

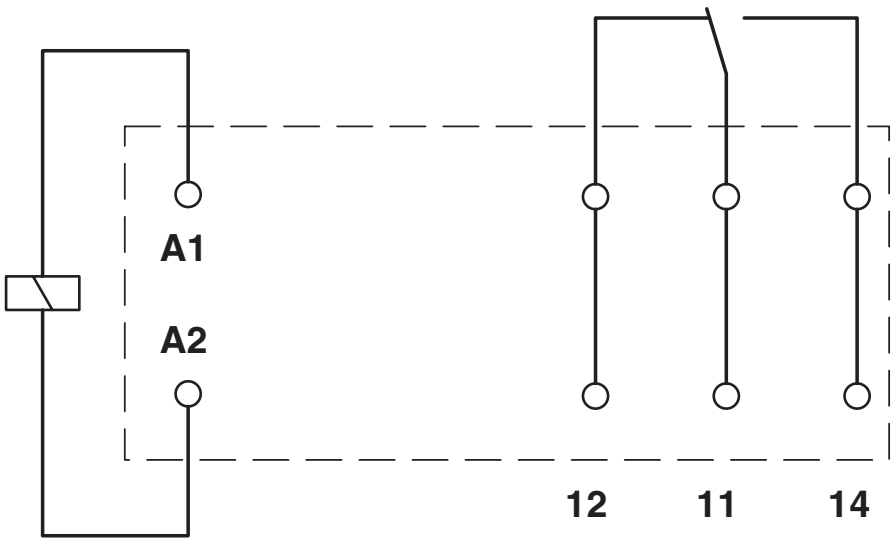


Basic pitch 2.5 mm

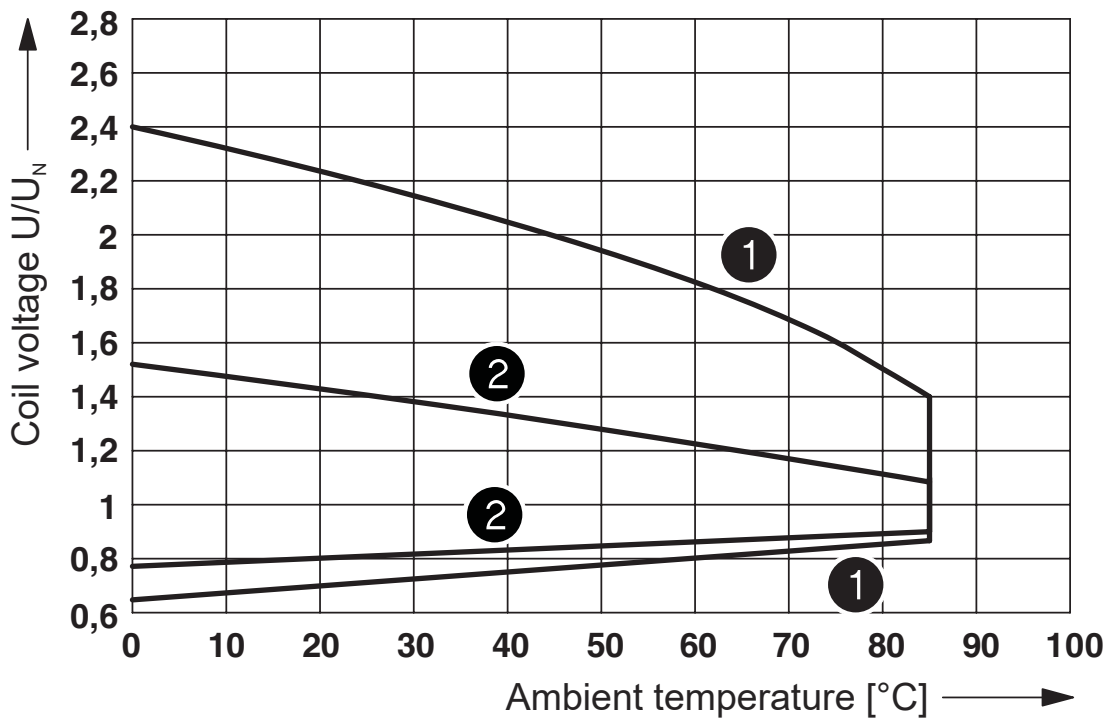
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Circuit diagram



Diagram



- ① DC coils
- ② AC coils

Operating voltage range

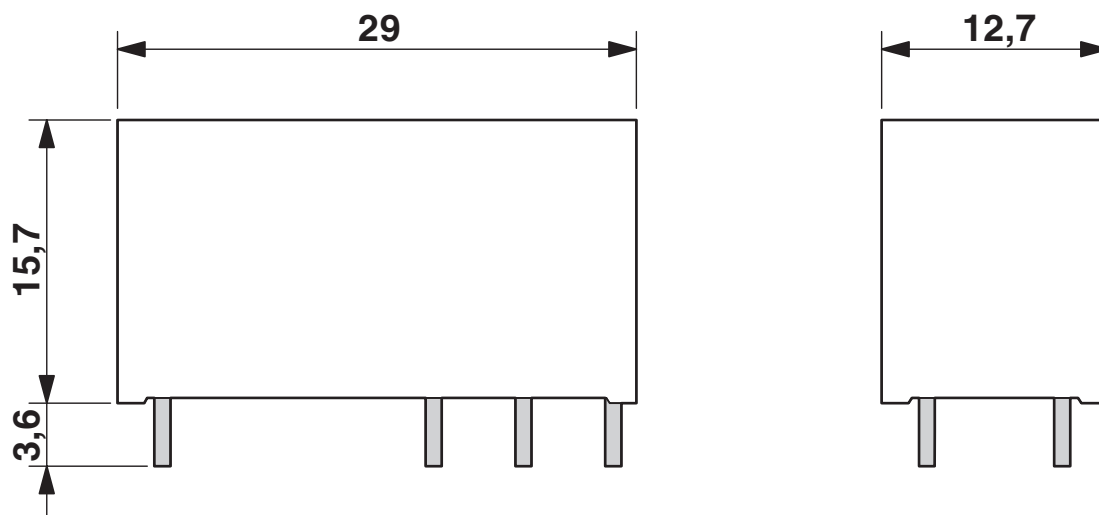
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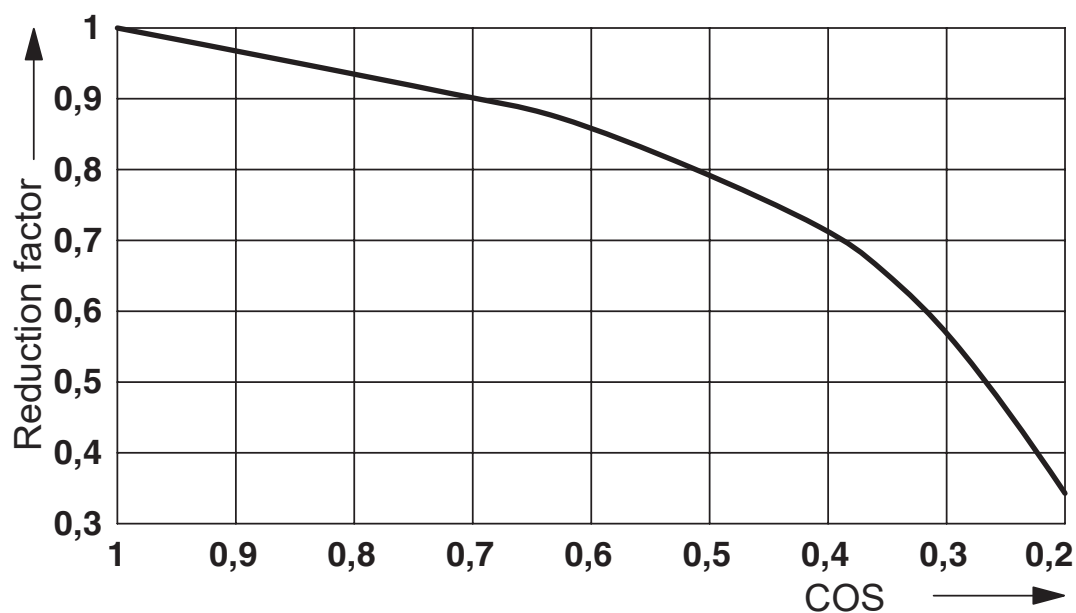
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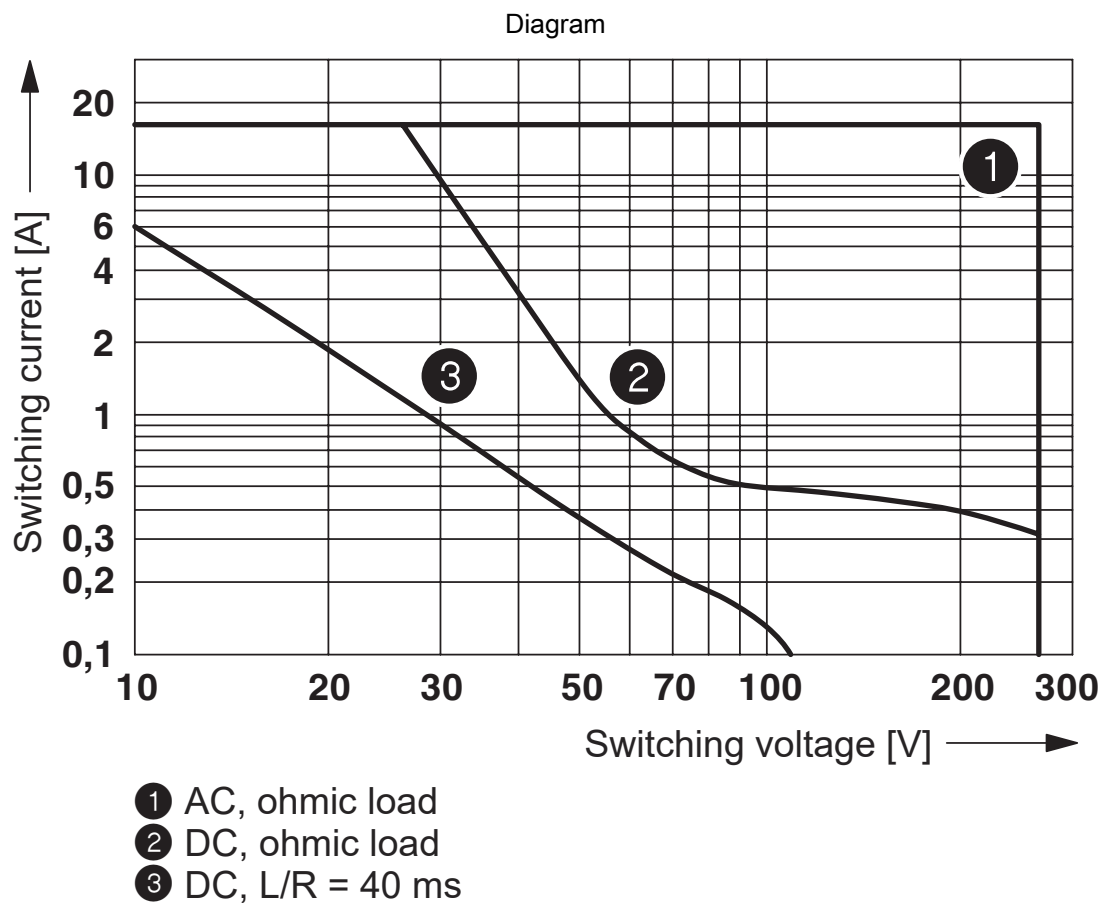
Dimensional drawing



Diagram



Service life reduction factor with various cos ϕ



Interrupting rating



Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures $\leq 0^{\circ}\text{C}$ must be prevented

Area B: Condensation at ambient temperatures $> 0^{\circ}\text{C}$ must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature $\leq 25^{\circ}\text{C}$.

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Aprobări

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/ro/produse/2961312>



cUL Recognized

ID de înregistrare: FILE E 228652



UL Recognized

ID de înregistrare: FILE E 228652



EAC

ID de înregistrare: TR_TS_D_00573_c



UL Recognized

ID de înregistrare: FILE E 228652



EAC

ID de înregistrare: RU*C-DE.*08.B.00010



VDE Zeichengenehmigung

ID de înregistrare: 40007758



VDE Zeichengenehmigung

ID de înregistrare: 40048281



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ID de înregistrare: FILE E 228652



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Clasificări

ECLASS

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

ETIM

ETIM 9.0	EC001437
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UNSPSC

UNSPSC 21.0	39122300
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Environmental product compliance

EU RoHS	
Îndeplinește cerințele conform directivei RoHS	Da, Nicio reglementare privind excepțiile
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	Nu există substanțe periculoase peste valorile limită
EU REACH SVHC	
Trimitere la substanța candidată REACH (nr. CAS)	Nicio substanță cu un procentaj masic mai mare de 0,1 %
EF3.0 Climate Change	
CO2e kg	0,098 kg CO2e

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Accesorii necesar

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

2967772

<https://www.phoenixcontact.com/ro/produse/2967772>



14 mm PLC basic terminal block for high continuous currents with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC

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

2967785

<https://www.phoenixcontact.com/ro/produse/2967785>



14 mm PLC basic terminal block for high continuous currents with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V AC/DC

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

2961312

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

2900254

<https://www.phoenixcontact.com/ro/produse/2900254>



14 mm PLC basic terminal block for high continuous currents with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC

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

2900255

<https://www.phoenixcontact.com/ro/produse/2900255>



14 mm PLC basic terminal block for high continuous currents with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V AC/DC

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

2961312

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RIF-1-BPT/2X21 - Relay base

2900931

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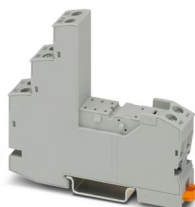


Relay base RIF-1..., for miniature power relay with 1 or 2 changeover contacts or solid-state relays of the same design, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

RIF-1-BSC/2X21 - Relay base

2900930

<https://www.phoenixcontact.com/ro/produse/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

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