

2961312

https://www.phoenixcontact.com/in/products/2961312

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

Your advantages

· Switching current of up to 16 A

Commercial Data

Item number	2961312
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK6195
Catalog Page	Page 290 (C-5-2019)
GTIN	4017918187576
Weight per Piece (including packing)	16.123 g
Weight per Piece (excluding packing)	12.91 g
Customs tariff number	85364900
Country of origin	AT



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Technical Data

Product properties

Product type	Single relay
Set comprises	2967620 PLC-RSC- 24DC/21HC
	2967633 PLC-RSC- 24UC/21HC
	2967646 PLC-RSC- 48DC/21HC
	2912277 PLC-RSP- 24DC/21HC
	2912280 PLC-RSP- 24UC/21HC
	2912293 PLC-RSP- 48DC/21HC
	2900291 PLC-RPT- 24DC/21HC
	2900293 PLC-RPT- 24UC/21HC
	2900294 PLC-RPT- 48DC/21HC
	2834326 PR1-RSC3-LDP-24DC/21
	2834407 PR1-RSP3-LDP-24DC/21
	2903342 RIF-1-RPT-LDP-24DC/1X21
	2903358 RIF-1-RSC-LDP-24DC/1X21
Operating mode	100% operating factor
Mechanical service life	3x 10 ⁷ cycles
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
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

- manuag	
Contact type	1 changeover contact
Type of switch contact	Single contact
Drive and function	monostable



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Drive (polarity)	bipolar
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)
	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	29
Width	12.7 mm
Height	29 mm
Depth	15.7 mm

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



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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

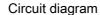
Assembly instructions	Can be aligned without spacing (> 70 °C ≥ 2.5 mm)
Mounting position	any

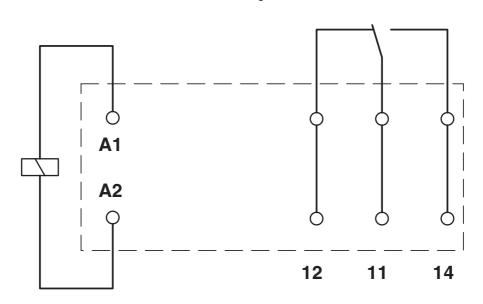


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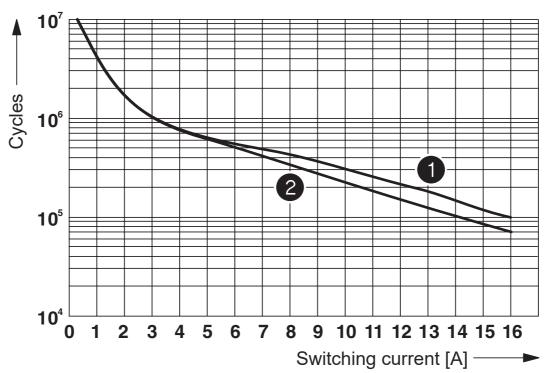


Drawings









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

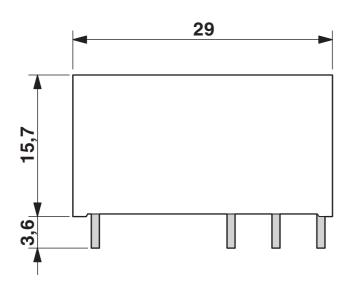
Electrical service life

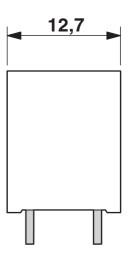


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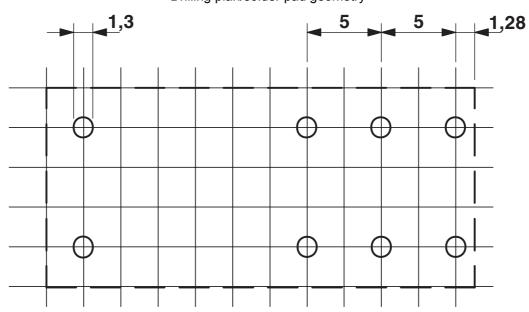


Dimensional drawing





Drilling plan/solder pad geometry

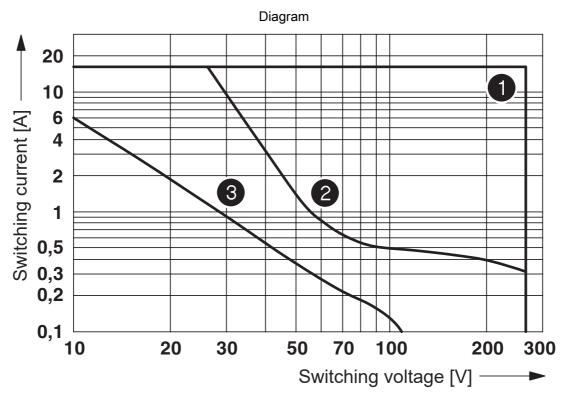


Basic pitch 2.5 mm



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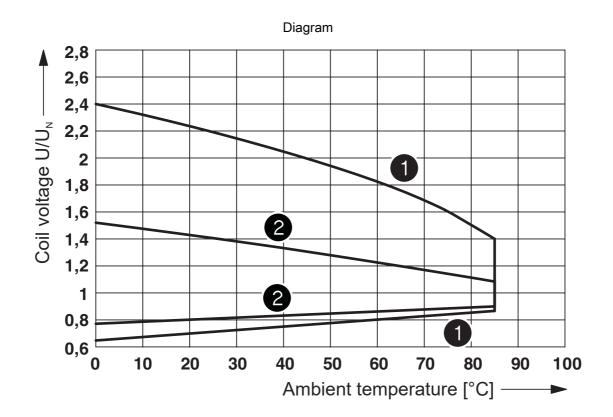
- 1 AC, ohmic load
- 2 DC, ohmic load
- **3** DC, L/R = 40 ms

Interrupting rating



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DC coilsAC coils

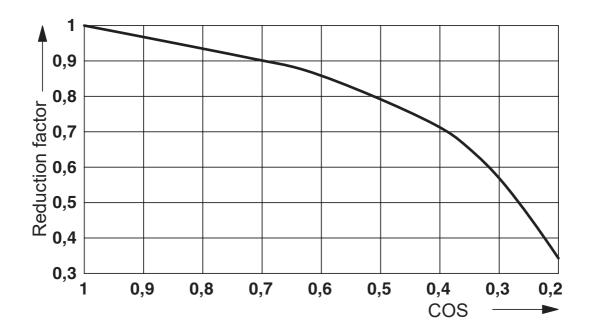
Operating voltage range



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Diagram



Service life reduction factor with various cos phi



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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



FAC

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



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27371601	
	ECLASS-12.0	27371601	
	ECLASS-13.0	27371601	
ETIM			
	ETIM 8.0	EC001437	
UNSPSC			

39122300



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Environmental Product Compliance

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



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Accessories

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

2967772

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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

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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



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

2967798

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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 48 V DC

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

2900254

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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



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

2900255

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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

PLC-BPIT- 48DC/21HC - Relay base

2900256

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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 48 V DC



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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

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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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PHOENIX CONTACT (I) Pvt. Ltd. A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420 info@phoenixcontact.co.in