

2961338

https://www.phoenixcontact.com/in/products/2961338

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Plug-in miniature power relay, with power contact for high continuous currents, 1 changeover contact, input voltage 110 V DC

Your advantages

· Switching current of up to 16 A

Commercial Data

Item number	2961338
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK6195
Catalog Page	Page 290 (C-5-2019)
GTIN	4017918187590
Weight per Piece (including packing)	16.25 g
Weight per Piece (excluding packing)	16.2 g
Customs tariff number	85364900
Country of origin	AT



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Technical Data

Product properties

Product type	Single relay	
Set comprises	2967662 PLC-RSC-120UC/21HC	
	2967675 PLC-RSC-230UC/21HC	
	2912316 PLC-RSP-120UC/21HC	
	2912329 PLC-RSP-230UC/21HC	
	2900296 PLC-RPT-120UC/21HC	
	2900297 PLC-RPT-230UC/21HC	
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	0.45 W
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min., winding/contact)

Input data

Coil side

Nominal input voltage U _N	110 V DC
Input voltage range	71.5 V DC 264 V DC
Typical input current at U _N	4.1 mA
Typical response time	7 ms
Typical release time	3 ms
Coil resistance	26600 Ω ±15 % (at 20 °C)

Output data

Switching

CWIGHING		
Contact type	1 changeover contact	
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	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)	



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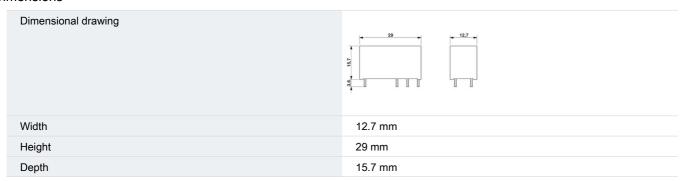


Interrupting rating (ohmic load) max.	384 W (at 24 V DC)
	58 W (at 48 V DC)
	48 W (at 60 V DC)
	50 W (at 110 V DC)
	80 W (at 220 V DC)
	4000 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	6 A (at 24 V, AC15)
	6 A (at 120 V, AC15)
	6 A (at 250 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



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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Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1
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Mo

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

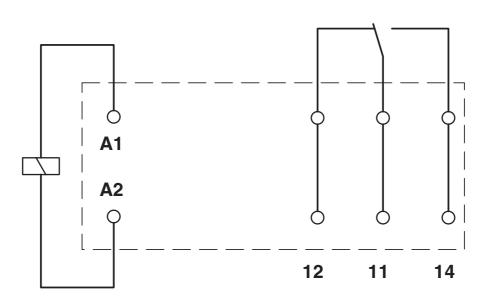


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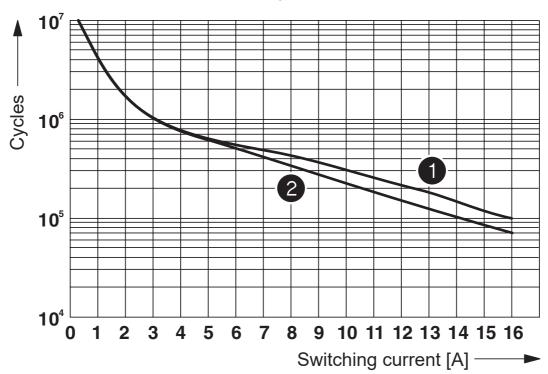


Drawings

Circuit diagram



Diagram



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

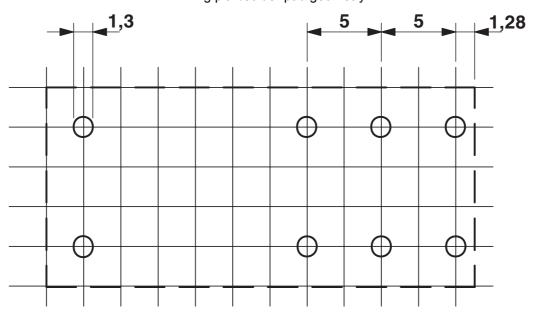
Electrical service life



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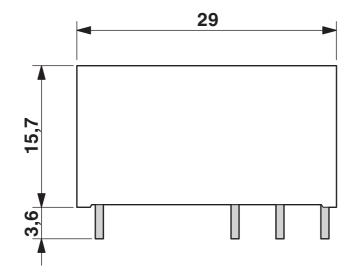


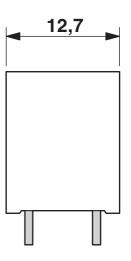
Drilling plan/solder pad geometry



a = pitch division 2.5 mm

Dimensional drawing

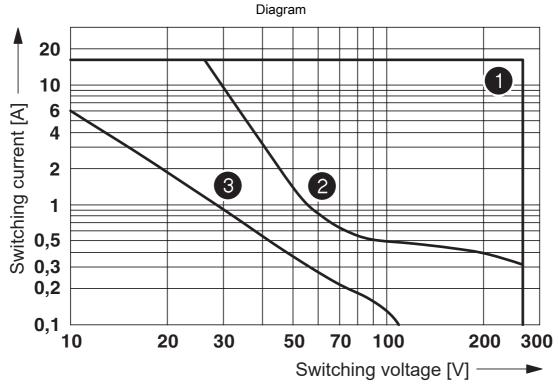






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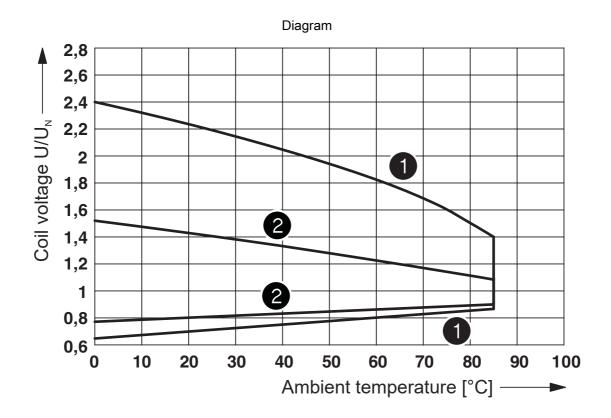
- 1 AC, ohmic load
- 2 DC, ohmic load
- **3** DC, L/R = 40 ms

Interrupting rating



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DC coilsAC coils

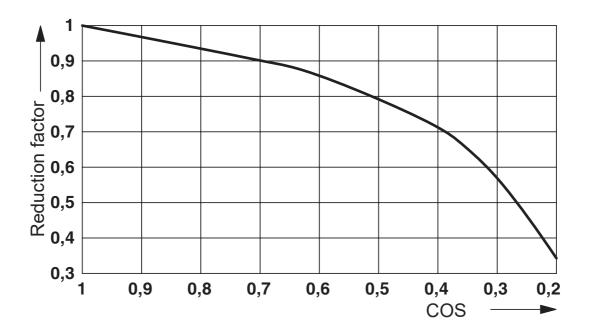
Operating voltage range



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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



EAC

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



VDE Zeichengenehmigung

Approval ID: 40007758



PRS

Approval ID: TE/2109/880590/16



cUL Recognized

Approval ID: FILE E 228652



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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	
UN	ISPSC		

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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-BPT-120UC/21HC - Relay base

2900258

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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 120 V AC/DC

PLC-BSC-120UC/21HC - Relay base

2967811

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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 120 V AC/DC



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PLC-BPT-230UC/21HC - Relay base

2900259

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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 230 V AC/DC

PLC-BSC-230UC/21HC - Relay base

2967824

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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 230 V AC/DC



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PLC-BSC-120UC/21HC/SO46 - Relay base

2980432

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14 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, for high continuous currents, 1 changeover contact, input voltage 120 V AC

PLC-BSC-230UC/21HC/SO46 - Relay base

2980445

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14 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, for high continuous currents, 1 changeover contact, input voltage 230 V AC



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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