

https://www.phoenixcontact.com/in/products/2961341



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Pluggable miniature power relay, with power contact for high switch-on currents up to 130 A peaks, 1 N/O contact, input voltage: 24 V DC

### Your advantages

- Safe isolation according to DIN EN 50178 between coil and contact
- High degree of protection up to RT III depending on type (wash-proof)
- Power contacts up to 16 A

#### Commercial Data

Item number	2961341
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK6195
Catalog Page	Page 395 (C-5-2019)
GTIN	4017918187569
Weight per Piece (including packing)	16.1 g
Weight per Piece (excluding packing)	12.815 g
Customs tariff number	85364900
Country of origin	AT



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### **Technical Data**

#### Product properties

Product type	Single relay
Set comprises	2967604 PLC-RSC- 24DC/ 1IC/ACT
	2912413 PLC-RSP- 24DC/ 1IC/ACT
	2900298 PLC-RPT- 24DC/ 1IC/ACT
Operating mode	100% operating factor
Mechanical service life	3x 10 <sup>7</sup> cycles
Insulation characteristics	
Insulation	Safe isolation, reinforced insulation
Insulation characteristics	
Insulation	Safe isolation, reinforced insulation
Overvoltage category	III
Pollution degree	3

### Electrical properties

Maximum power dissipation for nominal condition	0.41 W
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min., winding/contact)
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV

### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range	19.2 V DC 54 V DC
Input voltage range in reference to $U_N$	see diagram
Typical input current at U <sub>N</sub>	17 mA
Typical response time	8 ms
Typical release time	3 ms
Coil resistance	1440 Ω ±10 % (20 °C)

## Output data

#### Switching

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Contact type	1 N/O contact
Type of switch contact	Single contact
Drive and function	monostable
Drive (polarity)	bipolar
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (100 mA)



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Limiting continuous current	16 A
Maximum inrush current	80 A (20 ms)
	130 A (peak, at capacitive load, 230 V AC, 24 μF)
Min. switching current	100 mA (at 12 V DC)
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 min.	1200 mW
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, 250 V AC (N/O contact)

#### Connection data

Connection method	Plug / solder connection
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#### **Dimensions**

Dimensional drawing	29 - 12.7 - 255
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
Altitude	≤ 2000 m

## Approvals

#### Corrosive gas test

<del>G</del>	
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60



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### Standards and regulations

Standards/regulations	EN 50178
	EN 61810-1

### Mounting

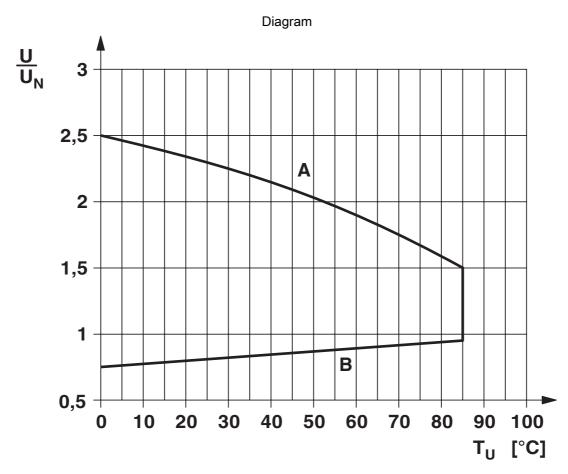
Mounting type	Plug-in mounting
Assembly instructions	Can be aligned without spacing (> 70 °C ≥ 2.5 mm)
Mounting position	any



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## **Drawings**



 $\label{eq:curve} Curve\ A$  Maximum permissible continuous voltage  $U_{max}$  with limiting continuous current on the contact side (see relevant technical data)  $Curve\ B$ 

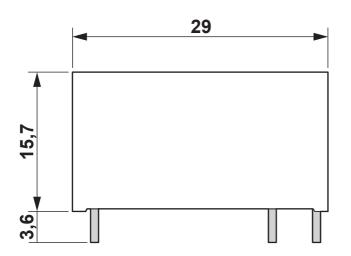
Minimum permissible operate voltage  $U_{op}$  after pre-excitation (see relevant technical data)

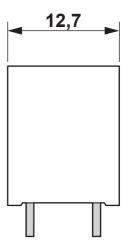


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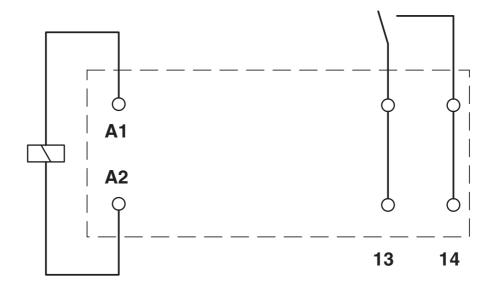


### Dimensional drawing





### Circuit diagram

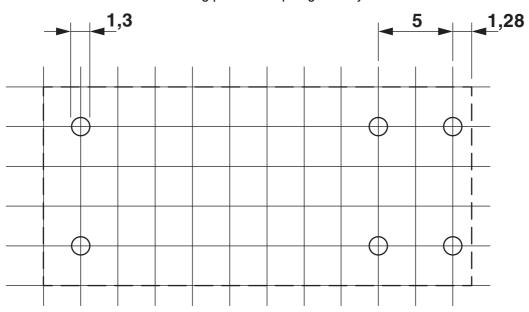




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a = pitch division 2.5 mm



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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 172140



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 172140



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## Classifications

UNSPSC 21.0

#### **ECLASS**

E	CLASS-11.0	27371601	
E	CLASS-12.0	27371601	
E	CLASS-13.0	27371601	
ETIM			
E.	TIM 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-BPT- 24DC/ 1IC/ACT - Relay base

2900260

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14 mm PLC basic terminal block for high switch-on currents with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V DC

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

2967837

https://www.phoenixcontact.com/in/products/2967837



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

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