

https://www.phoenixcontact.com/pc/products/2961105



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



Your advantages

- · Safe isolation between coil and contact side
- High degree of protection up to RT III depending on type (wash-proof)
- · Power contacts up to 6 A

Commercial data

Item number	2961105
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	08
Product key	CK6921
Catalog page	Page 284 (C-5-2019)
GTIN	4017918130893
Weight per piece (including packing)	6.71 g
Weight per piece (excluding packing)	5 g
Customs tariff number	85364190
Country of origin	CZ



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Technical data

Product properties

Product type	Single relay	
Operating mode	100% operating factor	
Mechanical service life	2x 10 ⁷ cycles	
Data management status		
Date of last data management	12.09.2024	
Article revision	02	
Insulation characteristics		
Overvoltage category	III	
Pollution degree	3	

Electrical properties

Maximum power dissipation for nominal condition	0.17 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)

Input data

Coil side

Nominal input voltage U _N	24 V DC
Input voltage range	14.4 V DC 66 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	see diagram
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U _N	7 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	3390 Ω ±10 % (at 20 °C)

Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Maximum inrush current	10 A (4 s)
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)



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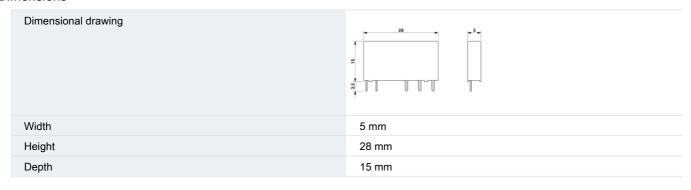


	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)
Motor load according to UL 508	1/4 HP, 240 - 277 V AC (N/O contact)
	1/6 HP, 240 - 277 V AC (N/C contact)

Connection data

Connection method	Plug / solder connection
Connection method	riug / solder connection

Dimensions



Material specifications

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

Ambient conditions

Degree of protection	RT III
Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

Standards and regulations

Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1

Mounting

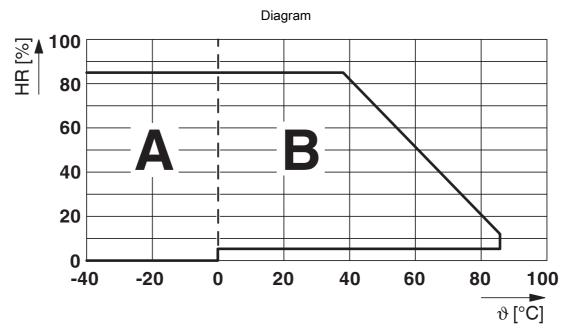
Assembly note	in rows with zero spacing
Mounting position	any



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Drawings



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 ≤ 0°C must be prevented

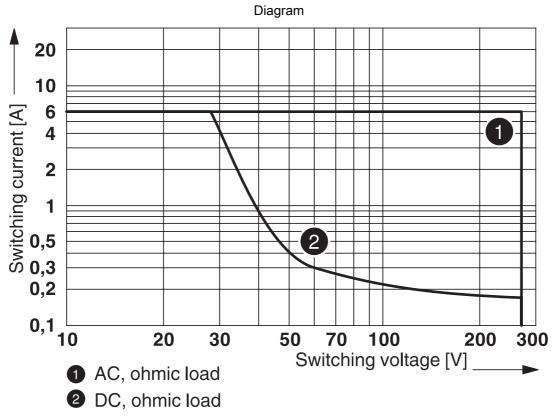
Area B: Condensation at ambient temperatures > 0°C must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.



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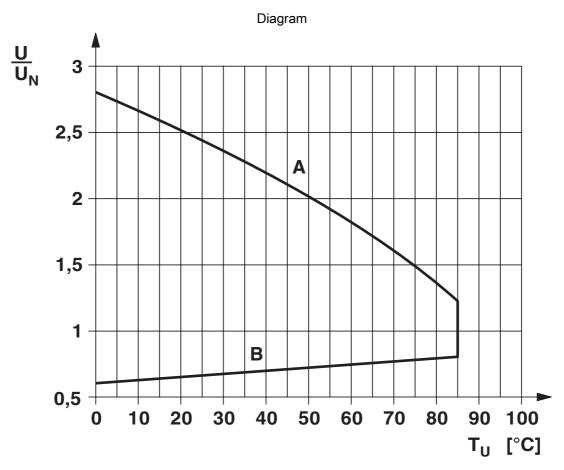


Interrupting rating



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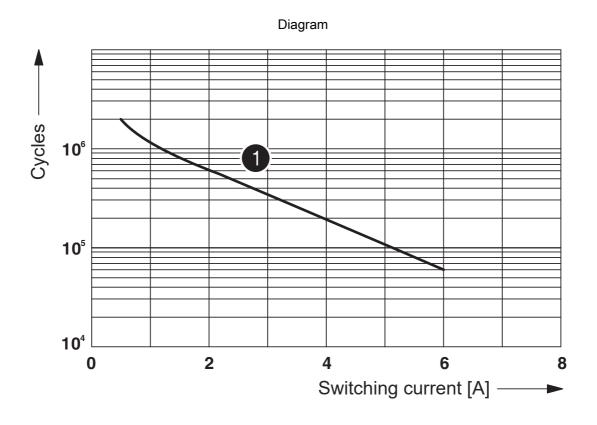


Operating voltage range



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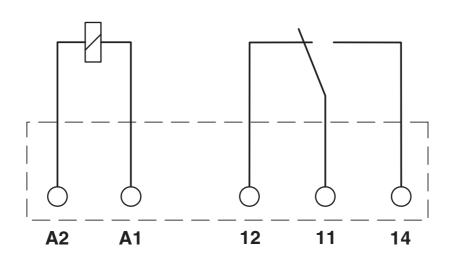




1 250 V AC, ohmic load

Electrical service life

Circuit diagram

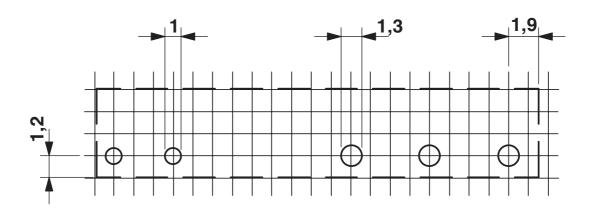




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Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm



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Approvals

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cUL Recognized

Approval ID: FILE E 172140



UL Recognized

Approval ID: FILE E 172140



EAC

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



UL Recognized

Approval ID: FILE E 172140



VDE approval of drawings

Approval ID: 40032864



VDE approval of drawings Approval ID: 40054426



cUL Recognized

Approval ID: FILE E 172140



VDE approval of drawings

Approval ID: 40010212



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27371601		
	ECLASS-12.0	27371601		
	ECLASS-13.0	27371601		
ETIM				
	ETIM 9.0	EC001437		
UN	ISPSC			

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Environmental product compliance

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%



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Mandatory accessories

PLC-BPT- 24DC/21 - Relay base

2900445

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 $6.2~\rm mm$ PLC basic terminal block 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-BSC- 24DC/21 - Relay base

2966016

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6.2 mm PLC basic terminal block 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



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PLC-BPT- 24UC/21 - Relay base

2900446

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 $6.2~\rm mm$ PLC basic terminal block 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-BSC- 24UC/21 - Relay base

2966029

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6.2 mm PLC basic terminal block 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-BPT- 24DC/ 1/SEN - Relay base

2900262

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6.2 mm PLC basic terminal block for input functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 24 V DC

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

2966061

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6.2 mm PLC basic terminal block for input functions with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 24 V DC



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PLC-BPT- 24UC/ 1/ACT - Relay base

2900450

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6.2 mm PLC basic terminal block for output functions 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 AC/DC

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

2982799

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6.2 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), 1 N/O contact, input voltage 24 V AC/DC



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PLC-BSC- 24DC/21/SO46 - Relay base

2980458

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6.2 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, with increased input current consumption, 1 changeover contact, input voltage 24 V DC

RIF-0-BPT/21 - Relay base

2900958

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Relay base RIF-0..., for miniature power relay with 1 changeover contact or solid-state relays of the same design, Push-in connection, for mounting on NS 35/7,5



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RIF-0-BSC/21 - Relay base

2900957

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RIF-0... relay base, for miniature power relay with 1 changeover contact or identical solid-state relays, screw connection, for mounting on NS 35/7,5

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