

2909645

https://www.phoenixcontact.com/gb/products/2909645

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, manual operation, 24 V DC input voltage

Commercial data

Item number	2909645
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CK6195
Product key	CK6195
Catalog page	Page 284 (C-5-2019)
GTIN	4055626377803
Weight per piece (including packing)	6.8 g
Weight per piece (excluding packing)	6.8 g
Customs tariff number	85364190
Country of origin	CZ



2909645

https://www.phoenixcontact.com/gb/products/2909645

Technical data

Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	1x 10 ⁷ cycles
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 U_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, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA (at 24 V)
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
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)

Switching: when the gold layer is destroyed



2909645

https://www.phoenixcontact.com/gb/products/2909645

Note	the following values are applicable if a gold layer is destroyed
Contact material	AgSnO
Maximum switching voltage	250 V AC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
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)
	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)

Connection data

Connection method	Plug / solder connection
-------------------	--------------------------

Dimensions

Width	5 mm
Height	28 mm
Depth	16 mm

Material specifications

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



2909645

https://www.phoenixcontact.com/gb/products/2909645

Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1
Mariation	
Mounting	
Assembly instructions	in rows with zero spacing
Mounting position	anv

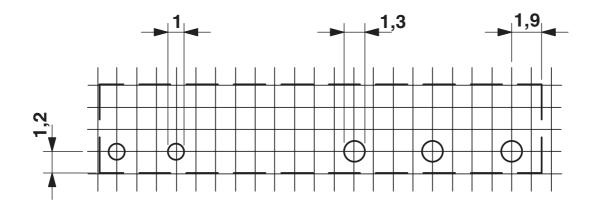


https://www.phoenixcontact.com/gb/products/2909645



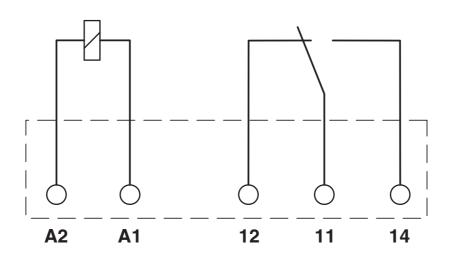
Drawings

Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

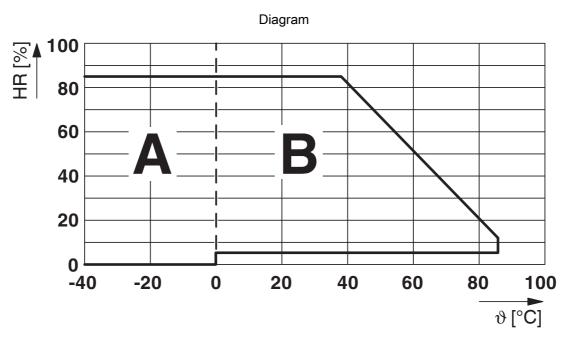
Circuit diagram





2909645

https://www.phoenixcontact.com/gb/products/2909645



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

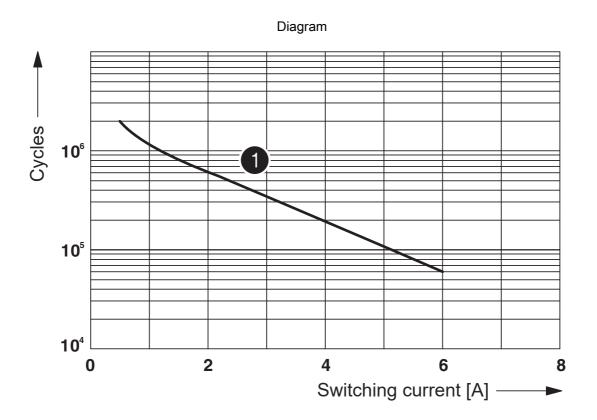
Area B: Condensation at ambient temperatures > 0°C must be prevented

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.



2909645

https://www.phoenixcontact.com/gb/products/2909645



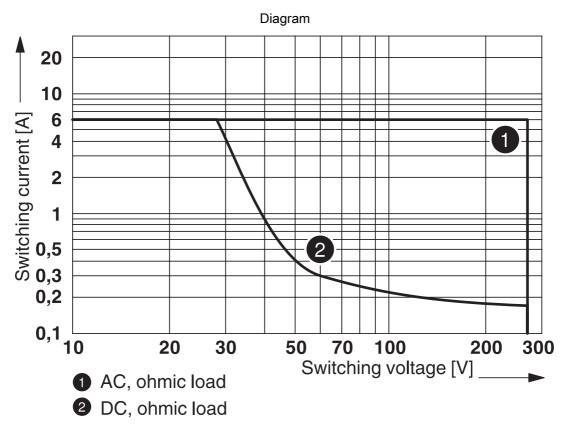
1 250 V AC, ohmic load

Electrical service life



2909645

https://www.phoenixcontact.com/gb/products/2909645



Interrupting rating



2909645

https://www.phoenixcontact.com/gb/products/2909645

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2909645



cUL Recognized

Approval ID: FILE E 228652



UL Recognized

Approval ID: FILE E 228652



EAC

Approval ID: TR_TS_D_00573_c



EAC

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



VDE Zeichengenehmigung

Approval ID: 40010212

cULus Recognized



2909645

https://www.phoenixcontact.com/gb/products/2909645

Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27371601	
ECLASS-12.0	27371601	
ECLASS-13.0	27371601	
ETIM		
ETIM 9.0	EC001437	
UNSPSC		

39122300



2909645

https://www.phoenixcontact.com/gb/products/2909645

Environmental product compliance

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



2909645

https://www.phoenixcontact.com/gb/products/2909645

Mandatory accessories

PLC-BPT- 24DC/21 - Relay base

2900445

https://www.phoenixcontact.com/gb/products/2900445



 $6.2~\rm mm$ 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

https://www.phoenixcontact.com/gb/products/2966016



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



2909645

https://www.phoenixcontact.com/gb/products/2909645

PLC-BPT- 24UC/21 - Relay base

2900446

https://www.phoenixcontact.com/gb/products/2900446



6.2 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

https://www.phoenixcontact.com/gb/products/2966029



 $6.2~\rm mm$ 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



2909645

https://www.phoenixcontact.com/gb/products/2909645

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

2900262

https://www.phoenixcontact.com/gb/products/2900262



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

https://www.phoenixcontact.com/gb/products/2966061



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



2909645

https://www.phoenixcontact.com/gb/products/2909645

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

2900449

https://www.phoenixcontact.com/gb/products/2900449



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 DC

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

2966058

https://www.phoenixcontact.com/gb/products/2966058



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 DC



2909645

https://www.phoenixcontact.com/gb/products/2909645

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

2900450

https://www.phoenixcontact.com/gb/products/2900450



 $6.2~\rm mm$ 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

https://www.phoenixcontact.com/gb/products/2982799



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



2909645

https://www.phoenixcontact.com/gb/products/2909645

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

2980458

https://www.phoenixcontact.com/gb/products/2980458



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

https://www.phoenixcontact.com/gb/products/2900958



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



2909645

https://www.phoenixcontact.com/gb/products/2909645

RIF-0-BSC/21 - Relay base

2900957

https://www.phoenixcontact.com/gb/products/2900957



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

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT Ltd Halesfield 13, Telford Shropshire, TF7 4PG 01952 681700 info@phoenixcontact.co.uk