

2909641

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Plug-in miniature power relay, with power contact, 1 changeover contact, manual operation, 12 V DC input voltage

Commercial data

Item number	2909641
Packing unit	1 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	CK6195
Catalog page	Page 284 (C-5-2019)
GTIN	4055626377667
Weight per piece (including packing)	6.63 g
Weight per piece (excluding packing)	4.7 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	1x 10 ⁷ cycles	
Insulation characteristics		
Overvoltage category	III	

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	12 V DC
Input voltage range	7.2 V DC 33 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	14 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	848 Ω ±10 % (at 20 °C)

Output data

Switching

3	
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)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)



2909641

Mounting

Assembly instructions

Mounting position

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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
Dimensions	
Width	5 mm
Height	28 mm
Depth	16 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
Approvals	
Corrosive gas test	101.071.01.0011.1.0
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60
Standards and regulations	
Standards/regulations	IEC 60664
	EN 50178

EN 61810-1

any

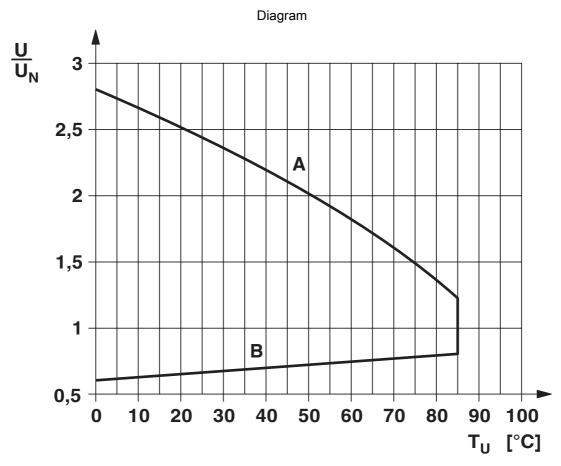
in rows with zero spacing



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Drawings

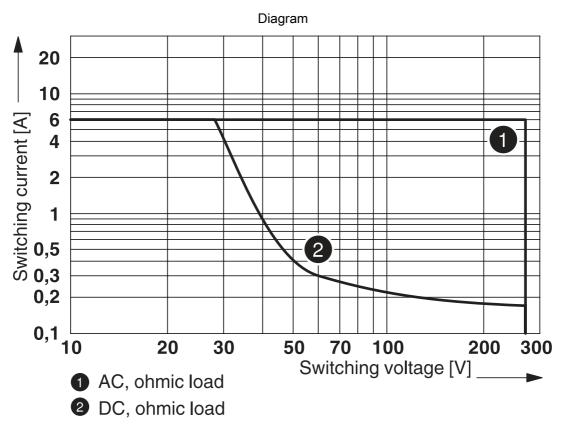


Operating voltage range

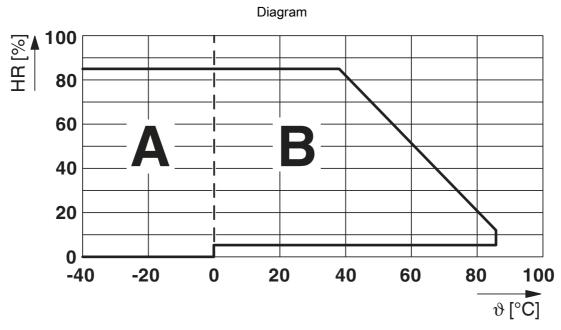


2909641

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Interrupting rating



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

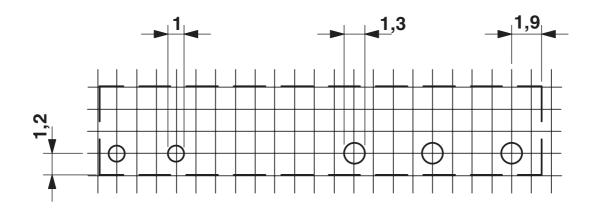
On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.



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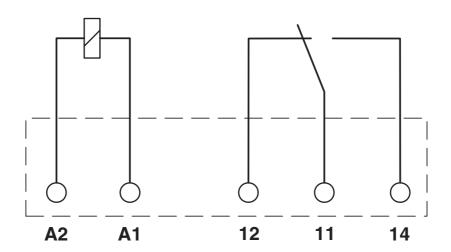


Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

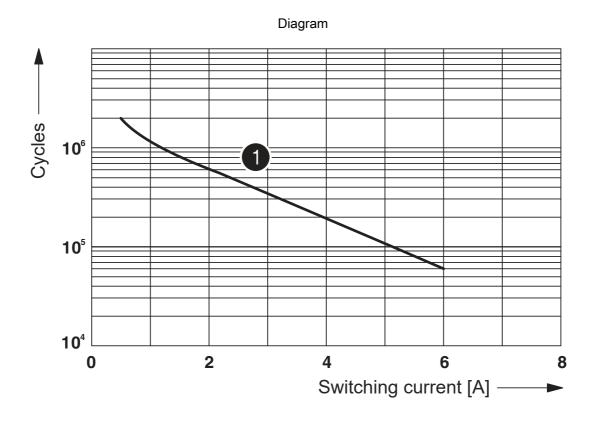
Circuit diagram





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1 250 V AC, ohmic load

Electrical service life



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2909641



cUL Recognized

Approval ID: FILE E 228652



UL Recognized

Approval ID: FILE E 228652

EAC

Approval ID: TR_TS_D_00573_c

EHC

EAC

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



VDE Zeichengenehmigung

Approval ID: 40010212

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Classifications

ECLASS

	ECLASS-11.0	27371601
	ECLASS-12.0	27371601
	ECLASS-13.0	27371601
ETIM		
	ETIM 8.0	EC001437
1U	NSPSC	
UI		EC001437

UNSPSC 21.0 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

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

RIF-0-BSC/21 - Relay base

2900957

https://www.phoenixcontact.com/us/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

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