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	10 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	
Pollution degree	3
lectrical properties	
Maximum power dissipation for nominal condition	0.17 W

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 ${\rm U}_{\rm N}$	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

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)



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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

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

Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1

Mounting

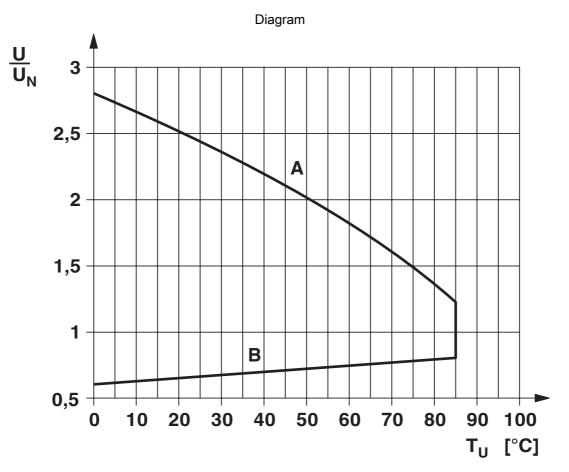
Assembly instructions	in rows with zero spacing
Mounting position	any



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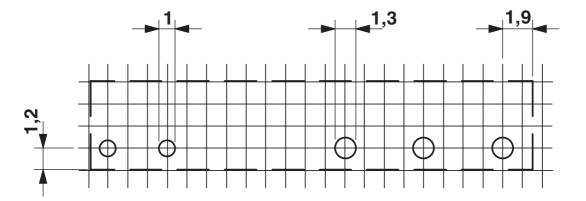
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Drawings



Operating voltage range

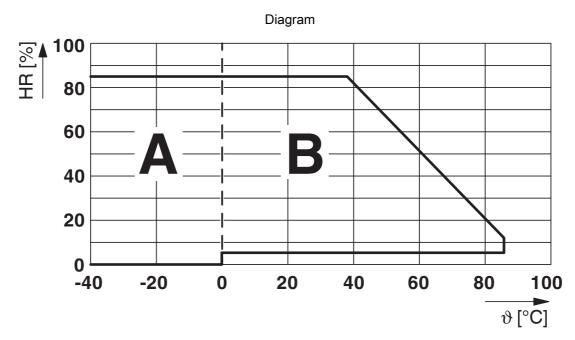
Drilling plan/solder pad geometry





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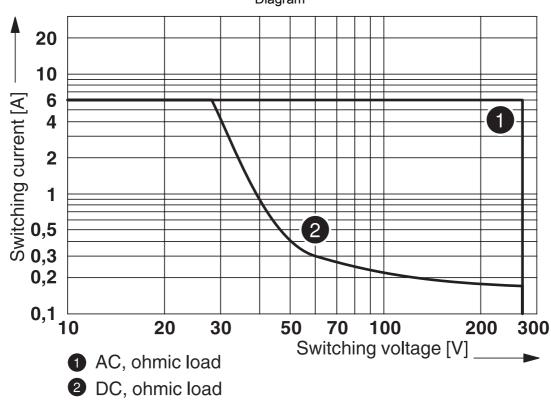


Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures $\leq 0^{\circ}$ 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.

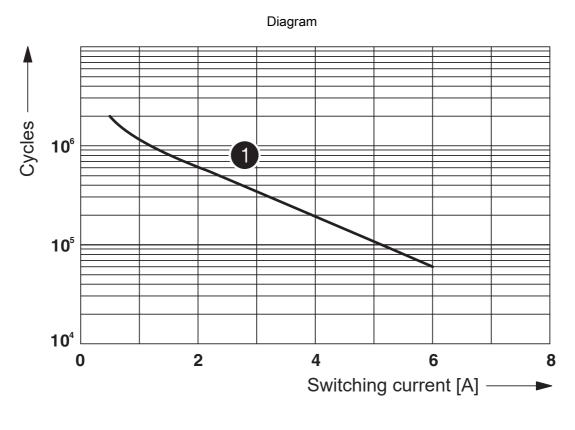


Diagram



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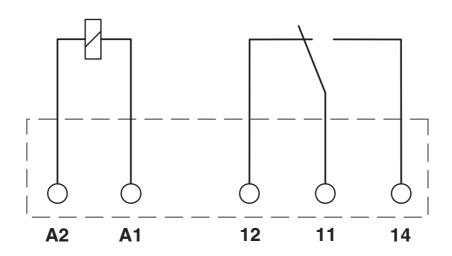
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1 250 V AC, ohmic load

Electrical service life

Circuit diagram





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Approvals

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

.91	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		



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Classifications

ECLASS

ECLASS-12.0 27371601	
ECLASS-13.0 27371601	

ETIM

	ETIM 9.0	EC001437		
UNSPSC				
	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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Mandatory accessories

RIF-0-BPT/21 - Relay base

2900958 https://www.phoenixcontact.com/us/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

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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