

2909645

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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	C460
Product key	CK6924
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



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Technical data

Product properties

Single relay
100% operating factor
1x 10 ⁷ cycles
02.05.2024
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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)



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Corrosive gas test

Identification

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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)
vitching: when the gold layer is destroyed	
Note	the following values are applicable if a go 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)
nection data	
Connection method	Plug / solder connection
ensions	
Width	5 mm
Height	28 mm
Depth	16 mm
erial specifications	
Color	white (RAL 9010)
ronmental and real-life conditions	
nbient conditions	
Degree of protection	RT II
Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

ISA-S71.04. G3 Harsh Group



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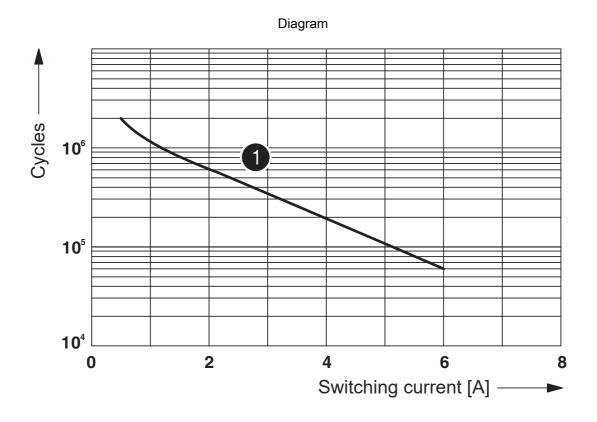
		EN 60068-2-60
Sta	andards and regulations	
	Standards/regulations	IEC 60664
		EN 50178
		EN 61810-1
Мс	punting	
	Assembly note	in rows with zero spacing
	Mounting position	any



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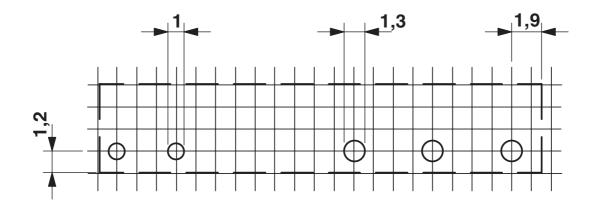
Drawings



1 250 V AC, ohmic load

Electrical service life

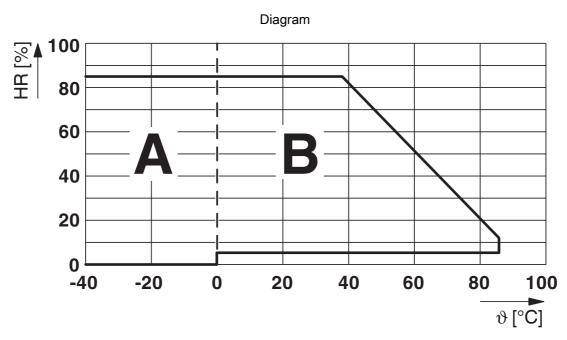
Drilling plan/solder pad geometry





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Permissible humidity for operation and storage.

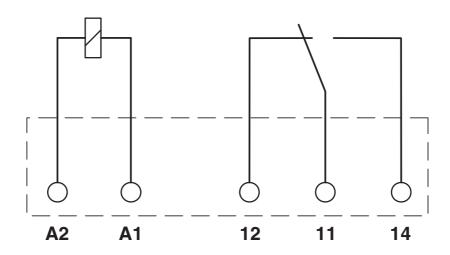
The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures ≤ 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 \leq 25°C.

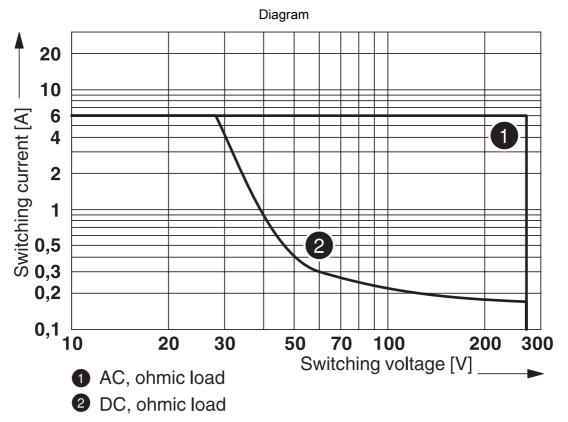
Circuit diagram





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Interrupting rating



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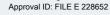
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Approvals

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



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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

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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	
UNSPSC		

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Environmental product compliance

EU RoHS

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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