2908040

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Plug-in high-power relay with power contacts, specifically for switching high DC loads, 1 N/O contact, blowout magnet, coil voltage: 24 V DC

Commercial data

Item number	2908040
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CK6
Product key	CK6961
Catalog page	Page 314 (C-5-2019)
GTIN	4055626266473
Weight per piece (including packing)	83.4 g
Weight per piece (excluding packing)	83.1 g
Customs tariff number	85364190
Country of origin	PL

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Technical data

Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	approx. 2x 10 ⁷ cycles
Data management status	
Date of last data management	02.05.2024
Article revision	02
nsulation characteristics	
Overvoltage category	
	3

Service life electricalsee diagramMaximum power dissipation for nominal condition1.68 WTest voltage (Winding/contact)2.5 kV (50 Hz, 1 min., winding/contact)Rated surge voltage4 kV

Input data

Coil side Nominal input voltage U_N 24 V DC Input voltage range 20.4 V DC ... 26.4 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 70 mA Typical response time 20 ms Typical release time 15 ms

Output data

Switching 1 N/O contact Contact switching type Type of switch contact Single contact Contact material AgNi Maximum switching voltage 440 V AC 250 V DC Minimum switching voltage 5 V (At 24 mA) Limiting continuous current 16 A Maximum inrush current 50 A (20 ms) 30 A (4 s)

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Min. switching current	5 mA (at 24 V)
Interrupting rating (ohmic load) max.	384 W (at 24 V DC)
	744 W (at 48 V DC)
	900 W (at 60 V DC)
	1540 W (at 110 V DC)
	2640 W (at 220 V DC)
	4000 VA (for 250 V AC)
Switching capacity min.	120 mW
Switching capacity	1 A (220 V, DC13)
	1.5 A (240 V, AC15)
	16 A (24 V DC, L/R = 40 ms)
	12 A (48 V DC, L/R = 40 ms)
	9.5 A (60 V DC, L/R = 40 ms)
	5.4 A (110 V DC, L/R = 40 ms)
	3 A (220 V DC, L/R = 40 ms)
	2.7 A (250 V DC, L/R = 40 ms)

Connection data

Connection method	Plug-in connection
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Dimensions

Width	38.6 mm
Height	36.1 mm
Depth	45.5 mm

Environmental and real-life conditions

Ambient conditions		
Degree of protection	RTI	
Ambient temperature (operation)	-40 °C 70 °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
	IEC 61810

Mounting

Mounting position any	iny
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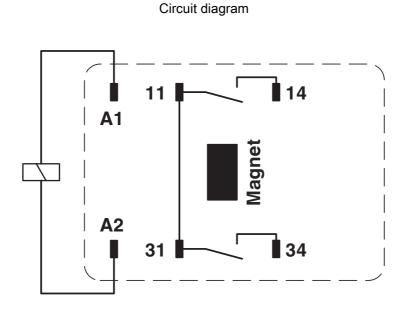
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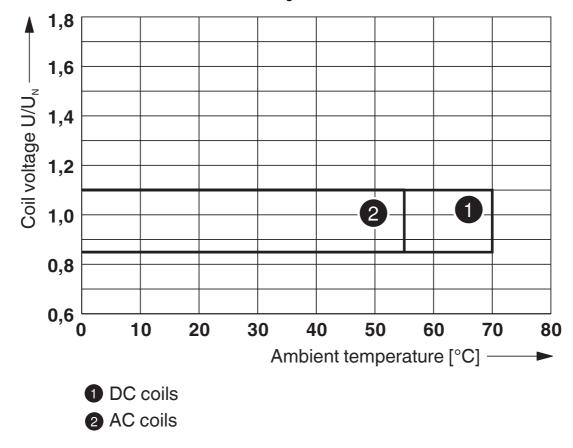
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Drawings



Diagram

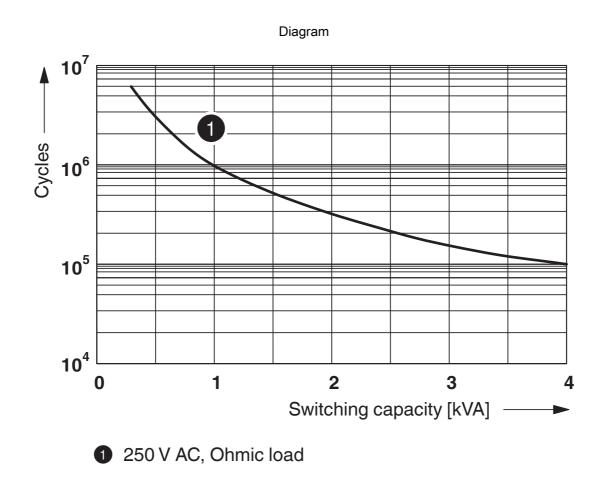


Operating voltage range



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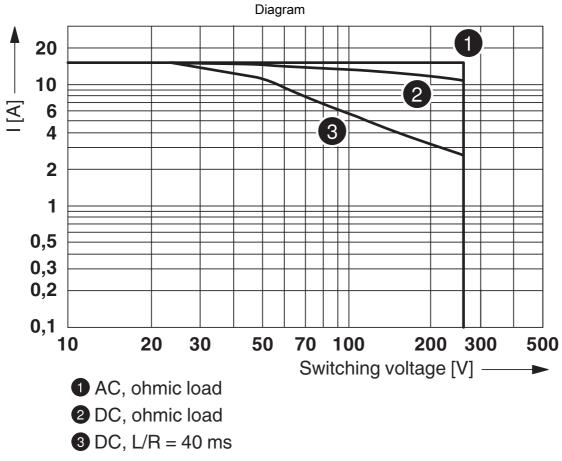


Electrical service life



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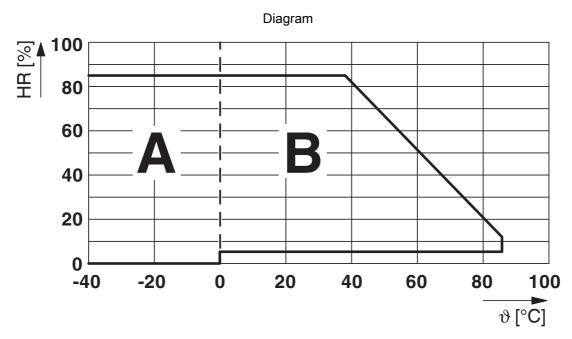


Interrupting rating



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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.

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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/2908040

6	CSA Approval ID: 256725
.R 1	CUL Recognized Approval ID: FILE E 172140
F	UL Recognized Approval ID: FILE E 172140
EAC	EAC Approval ID: TR_TS_D_00573_c
EAC	EAC Approval ID: RU*C-DE.*08.B.00010
cl	JLus Recognized

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Classifications

ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

ETIM

	ETIM 9.0	EC001437		
UN	UNSPSC			
	UNSPSC 21.0	39122300		

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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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Mandatory accessories

RIF-4-BPT/3X21 - Relay base

2900961 https://www.phoenixcontact.com/in/products/2900961



Relay base RIF-4..., for high-power relay with 2 or 3 changeover contacts or 3 N/O contacts, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

RIF-4-BSC/3X21 - Relay base

2900960 https://www.phoenixcontact.com/in/products/2900960



RIF-4... relay base, for high-power relay with 2 or 3 changeover contacts or 3 N/O contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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PHOENIX CONTACT (I) Pvt. Ltd. A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420 info@phoenixcontact.co.in