

2909642

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

Commercial data

Item number	2909642
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	DK6923
GTIN	4055626377674
Weight per piece (including packing)	6.77 g
Weight per piece (excluding packing)	6.77 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
Pollution degree	3
Data management status	
Date of last data management	05.09.2025

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 Maximum switching voltage 250 V AC/DC Minimum switching voltage 5 V (100 mA) Limiting continuous current 6 A Maximum inrush current 10 A (4 s) Min. switching current 10 mA (12 V) Interrupting rating (ohmic load) max. 140 W (24 V DC) 20 W (48 V DC) 18 W (60 V DC)	-	
Contact material AgSnO Maximum switching voltage 250 V AC/DC Minimum switching voltage 5 V (100 mA) Limiting continuous current 6 A Maximum inrush current 10 A (4 s) Min. switching current 10 mA (12 V) Interrupting rating (ohmic load) max. 140 W (24 V DC) 20 W (48 V DC)	Contact switching type	1 changeover contact
Maximum switching voltage 250 V AC/DC Minimum switching voltage 5 V (100 mA) Limiting continuous current 6 A Maximum inrush current 10 A (4 s) Min. switching current 10 mA (12 V) Interrupting rating (ohmic load) max. 140 W (24 V DC) 20 W (48 V DC)	Type of switch contact	Single contact
Minimum switching voltage 5 V (100 mA) Limiting continuous current 6 A Maximum inrush current 10 A (4 s) Min. switching current 10 mA (12 V) Interrupting rating (ohmic load) max. 140 W (24 V DC) 20 W (48 V DC)	Contact material	AgSnO
Limiting continuous current 6 A Maximum inrush current 10 A (4 s) Min. switching current 10 mA (12 V) Interrupting rating (ohmic load) max. 140 W (24 V DC) 20 W (48 V DC)	Maximum switching voltage	250 V AC/DC
Maximum inrush current 10 A (4 s) Min. switching current 10 mA (12 V) Interrupting rating (ohmic load) max. 140 W (24 V DC) 20 W (48 V DC)	Minimum switching voltage	5 V (100 mA)
Min. switching current 10 mA (12 V) Interrupting rating (ohmic load) max. 140 W (24 V DC) 20 W (48 V DC)	Limiting continuous current	6 A
Interrupting rating (ohmic load) max. 140 W (24 V DC) 20 W (48 V DC)	Maximum inrush current	10 A (4 s)
20 W (48 V DC)	Min. switching current	10 mA (12 V)
	Interrupting rating (ohmic load) max.	140 W (24 V DC)
18 W (60 V DC)		20 W (48 V DC)
		18 W (60 V DC)



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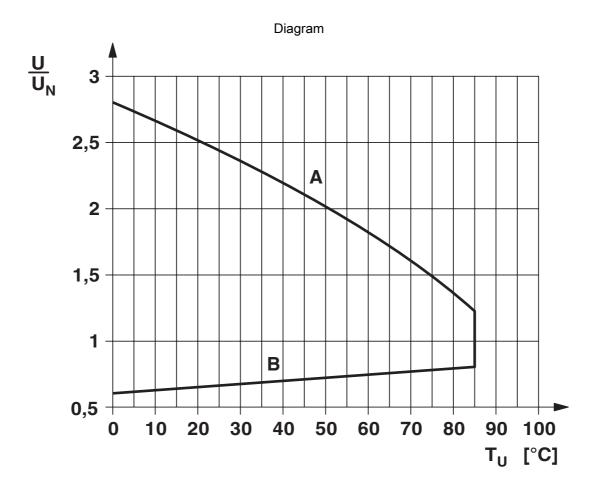
	23 W (110 V DC)
	40 W (220 V DC)
	1500 VA (250 V AC)
Switching capacity	2 A (24 V (DC13))
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)
Motor load according to UL 508	1/4 HP, 240 - 277 V AC (N/O contact)
	1/6 HP, 240 - 277 V AC (N/C contact)
Connection data	
Connection method	Plug / solder connection
vimensions	
Width	5 mm
Height	28 mm
Depth	16 mm
Naterial specifications	
Color	white (RAL 9010)
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	
Mounting type	Plug-in mounting
Assembly note	in rows with zero spacing
Mounting position	any



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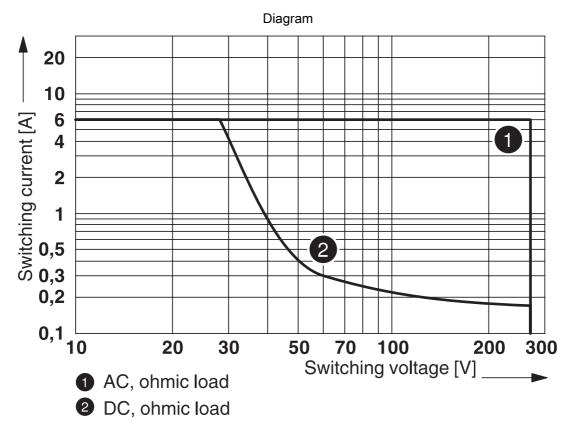
Drawings





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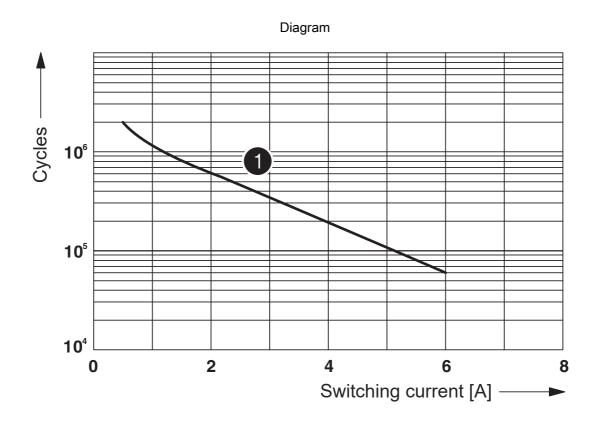


Interrupting rating



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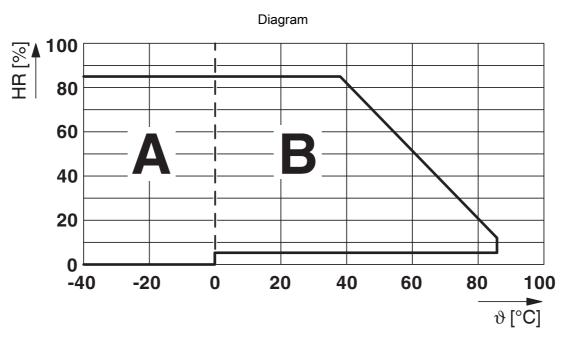
1 250 V AC, ohmic load

Electrical service life



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Permissible humidity for operation and storage.

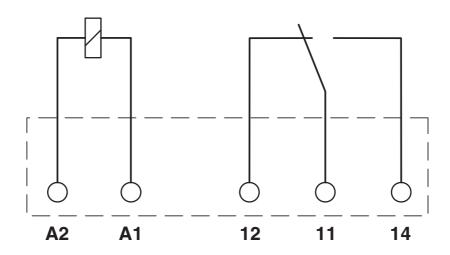
The maximum permissible ambient temperature as specified in the data sheet must be observed.

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

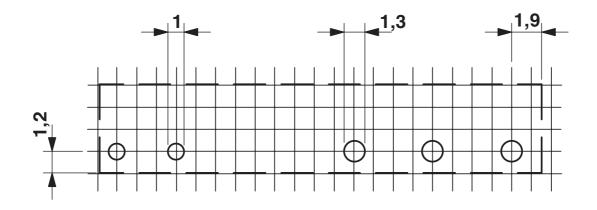




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Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2909642



cUL Recognized

Approval ID: FILE E 228652



UL Recognized

Approval ID: FILE E 228652



EAC

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



VDE approval of drawings

Approval ID: 40010212



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27371601
	ECLASS-15.0	27371601
ET	TIM	
	ETIM 9.0	EC001437
UN	ISPSC	

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%
EF3.0 Climate Change	
CO2e kg	0.195 kg CO2e

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