

2903685

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Plug-in industrial relay with power contacts and additional hard gold plating, 4 changeover contacts, test button, status LED, mechanical switching position indicator, coil voltage: 230 V AC

Commercial data

Item number	2903685
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	CK694A
Catalog page	Page 300 (C-5-2019)
GTIN	4046356758987
Weight per piece (including packing)	32.98 g
Weight per piece (excluding packing)	31.85 g
Customs tariff number	85364900
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	
Insulation characteristics		
Insulation	Basic insulation	
Overvoltage category	II II	
Pollution degree	2	
Data management status		
Date of last data management	02.05.2024	

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	1.5 W
Test voltage (Winding/contact)	2.5 kV _{rms} (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2 kV _{rms} (50 Hz, 1 min., changeover contact/changeover contact)
Rated insulation voltage	250 V AC
Rated surge voltage	2.5 kV

Input data

Coil side

Nominal input voltage U _N	230 V AC
Input voltage range	179.4 V AC 317.4 V AC (20 °C)
Mains frequency	50/60 Hz
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U _N	6.5 mA
Typical response time	5 ms 15 ms (depending on phase relation)
Typical release time range	5 ms 20 ms (depending on phase relation)
Status display	LED (yellow)

Output data

Switching

- This imig		
Contact switching type	4 changeover contacts	
Type of switch contact	Single contact	
Contact material	AgNi, hard gold-plated	
Note	If the specified maximum values for multi-layer contact relays are exceeded, the gold plating is destroyed. The maximum values of the power contact relay are then valid. This can result in a shorter service life than with a pure power contact.	



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Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	2 V (At 24 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	2 mA (24 V DC)
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity min.	48 mW

Switching: when the gold layer is destroyed

Note	the following values are applicable if a gold layer is destroyed
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (At 24 mA)
Limiting continuous current	6 A
Maximum inrush current	16 A (20 ms, N/O contacts)
Min. switching current	5 mA (at 24 V)
Interrupting rating (ohmic load) max.	144 W (at 24 V DC)
	124 W (at 48 V DC)
	108 W (at 60 V DC)
	52 W (at 110 V DC)
	48 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.22 A (at 120 V, DC13)
	0.11 A (at 250 V, DC13)
	1.5 A (at 24 V, AC15)
	1.5 A (at 120 V, AC15)
	1 A (at 240 V, AC15)

Connection data

	Connection method	Plug-in connection
Dir	mensions	
	Width	21.2 mm
	Height	27.5 mm
	Depth	35.6 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	RTI
Ambient temperature (operation)	-40 °C 55 °C
Ambient temperature (storage/transport)	-40 °C 85 °C



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Approvals

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CO	rrosive	aas	test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Standards and regulations

Standards/regulations	IEC 60664
	IEC 61810

Mounting

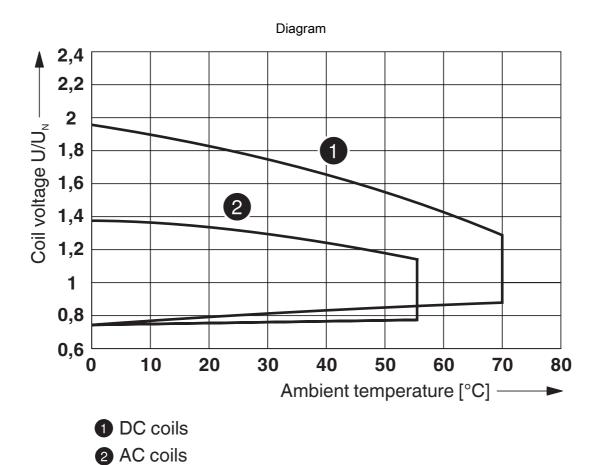
Mounting position	any
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Drawings

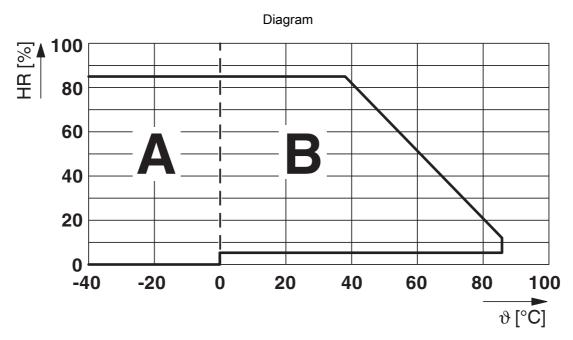


Operating voltage range



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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

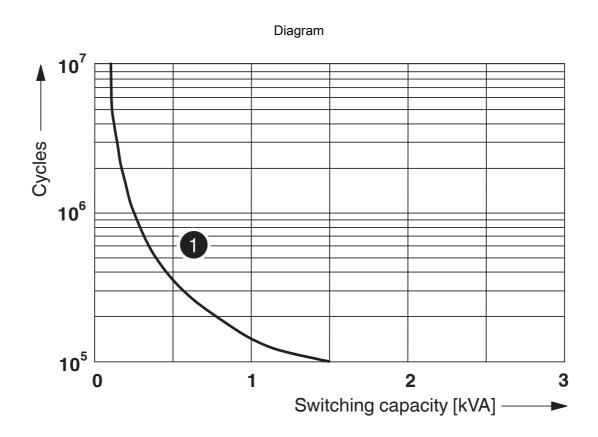
Area B: Condensation at ambient temperatures > 0°C must be prevented

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



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1 250 V AC, Ohmic load

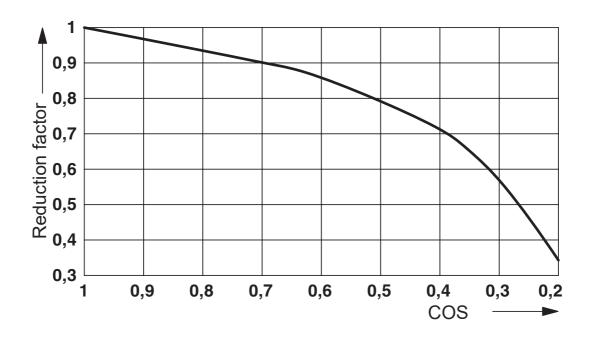
Electrical service life



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Diagram

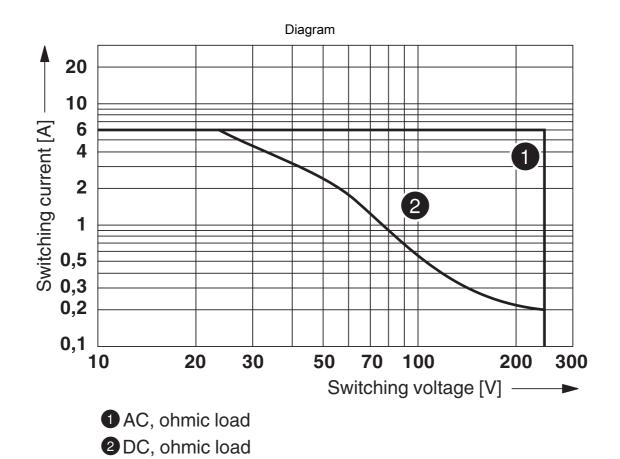


Service life reduction factor



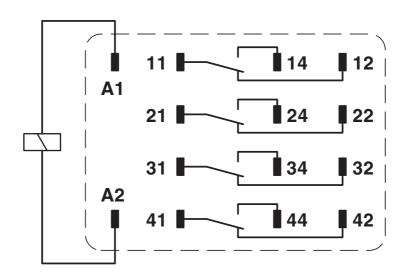
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Interrupting rating

Circuit diagram





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Approvals

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CSA

Approval ID: 256725



cUL Recognized

Approval ID: FILE E 172140



UL Recognized

Approval ID: FILE E 172140



EAC

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



VDE approval of drawings

Approval ID: 40040427

cULus Recognized



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27371601
I	ECLASS-12.0	27371601
	ECLASS-13.0	27371601
ETIM		
LIN		
I	ETIM 9.0	EC001437
UNS	SPSC	

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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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com