2909738

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Pluggable industrial relay, RT III sealed with power contacts, 4x changeover contacts, mechanical switch position indicator, polarity: non-polarized, input voltage: 24 V DC, in connection with RIF-2.../EX bases approved in accordance with ATEX/IECEx (zone 2) and Ex zone class I, div. 2.

Commercial data

Item number	2909738
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	СК694Н
Catalog page	Page 345 (C-5-2019)
GTIN	4055626379685
Weight per piece (including packing)	35.43 g
Weight per piece (excluding packing)	35.43 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	1x 10 ⁷ cycles, approximately
Date of last data management	02.05.2024
Insulation characteristics	
Insulation	Basic insulation
Insulation characteristics	
Insulation	Basic insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	0.91 W
Test voltage (Winding/contact)	2.5 kV _{rms} (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2.5 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

24 V DC
18.7 V DC 46.8 V DC
see diagram
monostable
non-polarized
38 mA
13 ms
3 ms

Output data

Switching

Contact switching type	4 changeover contacts
Type of switch contact	Single contact
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)





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	12 A (4 s, 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 min.	0.12 W
Switching capacity	2 A (at 24 V, DC13)
	1 A (at 230 V, AC15)
Motor load according to UL 508	1/3 HP, 240 V AC

Connection data

Dimensions

Width	21.2 mm
Height	27.5 mm
Depth	35.6 mm

Environmental and real-life conditions

Ambient conditions	
Degree of protection	RT III
Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

Approvals

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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Electrical service life



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Circuit diagram





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Diagram

Service life reduction factor



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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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Interrupting rating



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Approvals

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17,	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	
cULus Recognized		



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Classifications

ECLASS

ECLASS-11.0	27371601
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

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-2-BPT/4X21/EX - Relay base

1047028 https://www.phoenixcontact.com/us/products/1047028



RIF-2.../EX relay base for assembling with RTIII-sealed industrial relays with 4 changeover contacts for use in zone 2, Push-in connection, plug-in option for input / interference suppression modules, for mounting on NS 35/7,5

RIF-2-BSC/4X21/EX - Relay base

1047031 https://www.phoenixcontact.com/us/products/1047031



RIF-2.../EX relay base for assembling with RTIII-sealed industrial relays with 4 changeover contacts for use in zone 2, screw connection, plug-in option for input / interference suppression modules, for mounting on NS 35/7,5

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