

1157954

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Safety relay with force-guided contacts in accordance with DIN EN 61810-3 (type A), input voltage 24 V DC, with multi-layer gold contact, 3 N/O contacts and 1 N/C contacts

Commercial data

Item number	1157954
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	CK6194
GTIN	4063151163617
Weight per piece (including packing)	22.08 g
Weight per piece (excluding packing)	22.08 g
Customs tariff number	85364190
Country of origin	CN



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Technical data

Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	approx. 10 ⁷ cycles
B _{10d}	810000 Cycles (AC15, 250 V / 0.5 A, 1 NO)
	170000 Cycles (AC15; 250 V / 2 A; 1 NO)
	318000 Cycles (DC13, 24 V / 1 A, 1 NO)
	208000 Cycles (DC13, 24 V / 2 A, 1 NO)

Insulation characteristics

Insulation	Basic insulation
	Safe isolation, reinforced insulation and 6 KV between the coil and the contact circuit and between the contacts 3-4, 5-6 to 7-8, 9-10

Insulation characteristics: Air clearances and creepage distances between the power circuits

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	Safe isolation, reinforced insulation and 6 KV between the coil and the contact circuit and between the contacts 3-4, 5-6 to 7-8, 9-10
Overvoltage category	III
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	0.36 W
Test voltage (Winding/contact)	4 kV _{rms} (50 Hz, 1 min., winding/contact)
Test voltage (Contact/contact)	2.5 kV _{rms} (50 Hz, 1 min., contact/contact)
Air clearances and creepage distances between the power circuits	

Rated insulation voltage	250 V AC
Rated surge voltage	4 kV

Input data

Coil side

Nominal input voltage U _N	24 V DC
Input voltage range	19.2 V DC 26.4 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	see diagram
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U _N	15 mA
Typical response time	10 ms
Typical release time	5 ms

Output data



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Switching

Contact switching type	3 N/O contacts, 1 N/C contact, force-guided
Type of switch contact	Single contact
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	250 V AC
	AgSnO, hard gold-plated 250 V AC 300 V DC 10 V 6 A 35 A (20 ms) 5 mA (10 V) 144 W (24 V DC) 100 W (48 V DC) 75 W (60 V DC)
Minimum switching voltage	10 V
Limiting continuous current	6 A
Maximum inrush current	35 A (20 ms)
Min. switching current	5 mA (10 V)
Interrupting rating (ohmic load) max.	144 W (24 V DC)
	100 W (48 V DC)
	75 W (60 V DC)
	55 W (110 V DC)
	50 W (220 V DC)
	1500 VA (250 V AC)
Switching capacity	2 A (24 V, DC13)
	3 A (230 V, AC15)
Force-guided contacts in accordance with EN 61810-3	Type A

Connection data

Connection method	Plug / solder connection

Dimensions

Width	13 mm
Height	24 mm
Depth	40 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection (Relay)	RT II
Degree of protection (Installation location)	IP54 (Installation location)
Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 2000 m

Approvals

Corrosive gas test

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

Standards and regulations

Air clearances and creepage distances between the power circuits



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	Standards/regulations	DIN EN 50178	
		EN 61810-1	
Mounting			
	Mounting position	any	



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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

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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