REL-IR4/LDP- 24DC/4X21AU - Single relay

2903670

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Plug-in industrial relay with power contacts and additional hard gold plating, 4 changeover contacts, test button, status LED, freewheeling diode, mechanical switching position indicator, polarity: A1+, A2-, coil voltage: 24 V DC

Commercial Data

Item number	2903670
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK6193
Catalog Page	Page 300 (C-5-2019)
GTIN	4046356758833
Weight per Piece (including packing)	36 g
Weight per Piece (excluding packing)	32.943 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. 2×10^7 cycles

Insulation characteristics

Insulation	Basic insulation

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Insulation	Basic insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	1.01 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	24 V DC
Input voltage range	18.7 V DC ... 46.8 V DC (20 °C)
Typical input current at U_N	42 mA
Typical response time	13 ms
Typical release time	14 ms
Protective circuit	Freewheeling diode
Status display	Yellow LED

Output data

Switching

Contact type	4 changeover contacts
Type of switch contact	Single contact
Drive and function	monostable
Drive (polarity)	polarized
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.

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
Motor load according to UL 508	1/3 HP, 240 V AC

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

Dimensions

Width	21.2 mm
Height	27.5 mm
Depth	35.6 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	RT I
Ambient temperature (operation)	-40 °C ... 70 °C

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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