RL-EE-REL-OR/LD-12DC/3X21/MS - Single relay

1901531

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Plug-in octal relays with power contacts, 3 PDTs, test button, freewheeling diode, mechanical switch position indicator, polarity: A1+, A2-, input voltage: 12 V DC

Commercial data

Item number	1901531
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	DKF954
Product key	DKF954
GTIN	4067923598799
Weight per piece (including packing)	98.5 g
Weight per piece (excluding packing)	92 g
Country of origin	Information on the country of origin is provided with the delivery.

Technical data

Notes

Notes on operation	The outputs are not suitable for switching different outer conductors.
Notes on operation	Do not use to separate SELV / PELV circuits from other circuits, because safe isolation is not guaranteed.

Product properties

Product type	Single relay
Product family	ESSENTIAL edition
Operating mode	100% operating factor
Mechanical service life	Approx. 1x 10^7 cycles

Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	23.07.2026

Electrical properties

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

Input data

Coil side

Nominal input voltage U_N	12 V DC
Input voltage range	9.6 V DC ... 14.4 V DC
Drive and function	monostable
Drive (polarity)	polarized
Input power dissipation for U_N	1.4 W
Typical response time	30 ms
Typical release time	30 ms
Protective circuit	Freewheeling diode
Status display	LED (yellow)
Coil resistance	120 Ω ±10 %

Output data

Switching

Contact switching type	3 changeover contacts
Type of switch contact	Single contact

Contact material	$AgSnO_2$
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	24 V (At 10 mA)
Limiting continuous current	10 A
Maximum inrush current	45 A (20 ms, N/O contacts)
Min. switching current	100 mA (12 V)
Motor load according to UL 508	1/3 HP, 240 V AC

Connection data

Connection method	Plug-in connection

Dimensions

Width	35 mm
Height	35.5 mm
Depth	55.6 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	RT II
Degree of protection (Installation location)	IP20 (Installation location)
Ambient temperature (operation)	-40 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 55 °C
Altitude	≤ 2000 m

Standards and regulations

Standards/regulations	IEC 61810

Mounting

Mounting position	any

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1901531

cULus Recognized
Approval ID: E228652

Classifications

ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)

China RoHS

Environment friendly use period (EFUP)	EFUP-10
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene] (DBDPE)(CAS: 84852-53-9)

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