

RL-EE-IR/L- 24DC/2X21 - Single relay



1585389

<https://www.phoenixcontact.com/in/products/1585389>

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Basic plug-in industrial relay with power contacts, 2 changeover contacts, test button, mechanical switching position indicator, polarity A1+, A2-, input voltage: 24 V DC

Commercial data

Item number	1585389
Packing unit	10 pc
Minimum order quantity	10 pc
Product key	DKF943
GTIN	4067923140738
Weight per piece (including packing)	37.4 g
Weight per piece (excluding packing)	34.5 g

Technical data

Notes

Notes on operation	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
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	1x 10 ⁷ cycles, approximately

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

Insulation	Basic insulation
Overvoltage category	II
Pollution degree	2

Data management status

Date of last data management	14.04.2025
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Electrical properties

Test voltage (Winding/contact)	2.5 kV _{rms} (50 Hz, 1 min.)
Test voltage (open contact)	1 kV _{rms} (50 Hz, 1 min.)
Test voltage (Changeover contact/changeover contact)	2 kV _{rms} (50 Hz, 1 min.)

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 ... 42 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U _N	41.3 mA
Input power dissipation for U _N	0.9 W
Typical response time	12 ms
Typical release time	7 ms
Coil voltage	24 V DC
Status display	LED (yellow)

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Output data

Switching

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC
	300 V DC
Minimum switching voltage	12 V (10 mA)
Limiting continuous current	12 A
Maximum inrush current	24 A (20 ms, N/O contacts)
Min. switching current	10 mA (12 V)
Interrupting rating (ohmic load) max.	288 W (24 V DC)
	130 W (48 V DC)
	90 W (60 V DC)
	66 W (110 V DC)
	88 W (220 V DC)
	90 W (300 V DC)
	3000 VA (250 V AC)
Switching capacity min.	0.12 W
Switching capacity	4 A (24 V (DC13))
	2 A (250 V, AC15)

Environmental and real-life conditions

Ambient conditions

Degree of protection (Relay)	RT I
Degree of protection (Installation location)	≥ IP54
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m

Standards and regulations

Standards/regulations	IEC 61810-1
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Air clearances and creepage distances between the power circuits

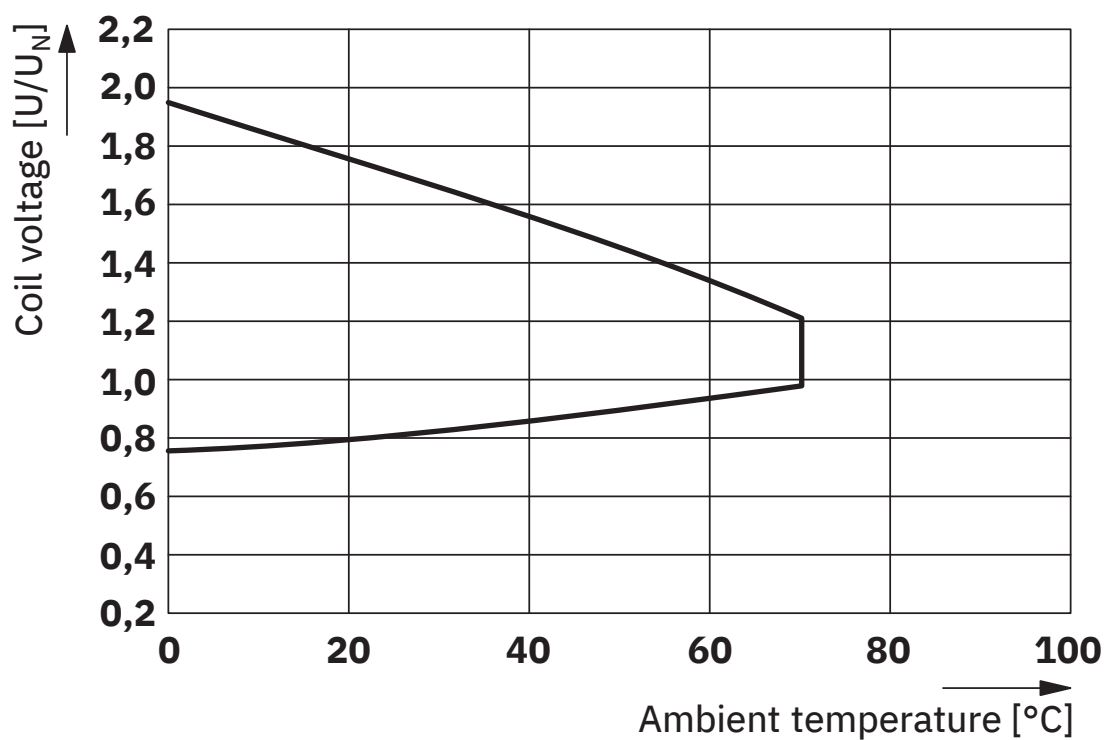
Standards/regulations	IEC 60664-1
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Mounting

Mounting type	Plug-in mounting
Assembly note	in rows with zero spacing
Mounting position	any

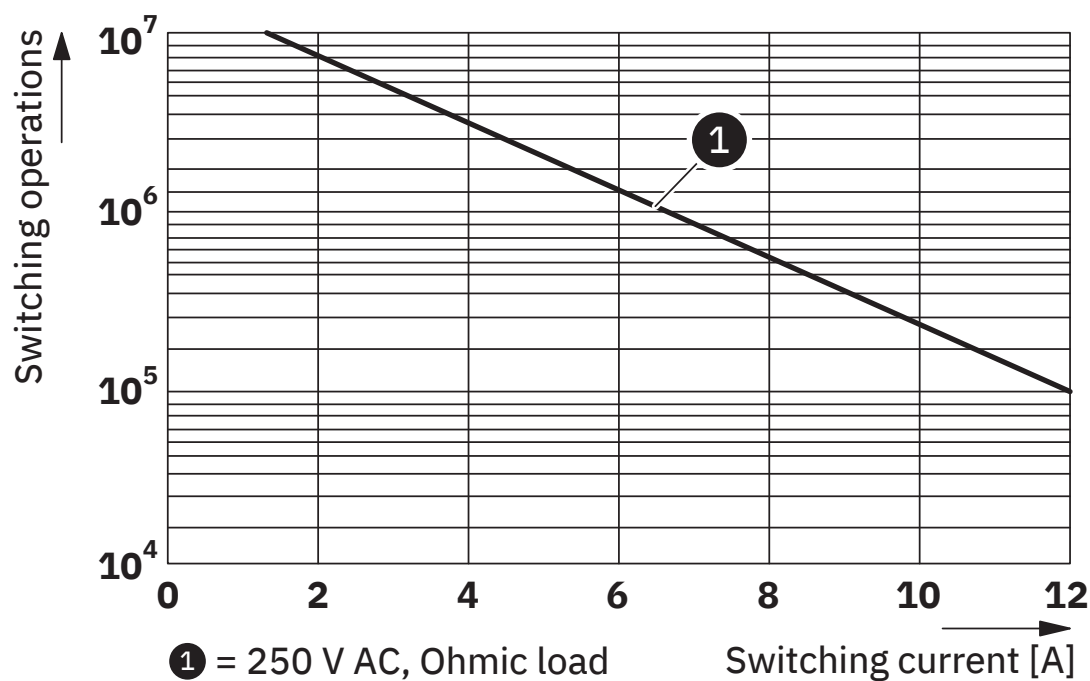
Drawings

Diagram



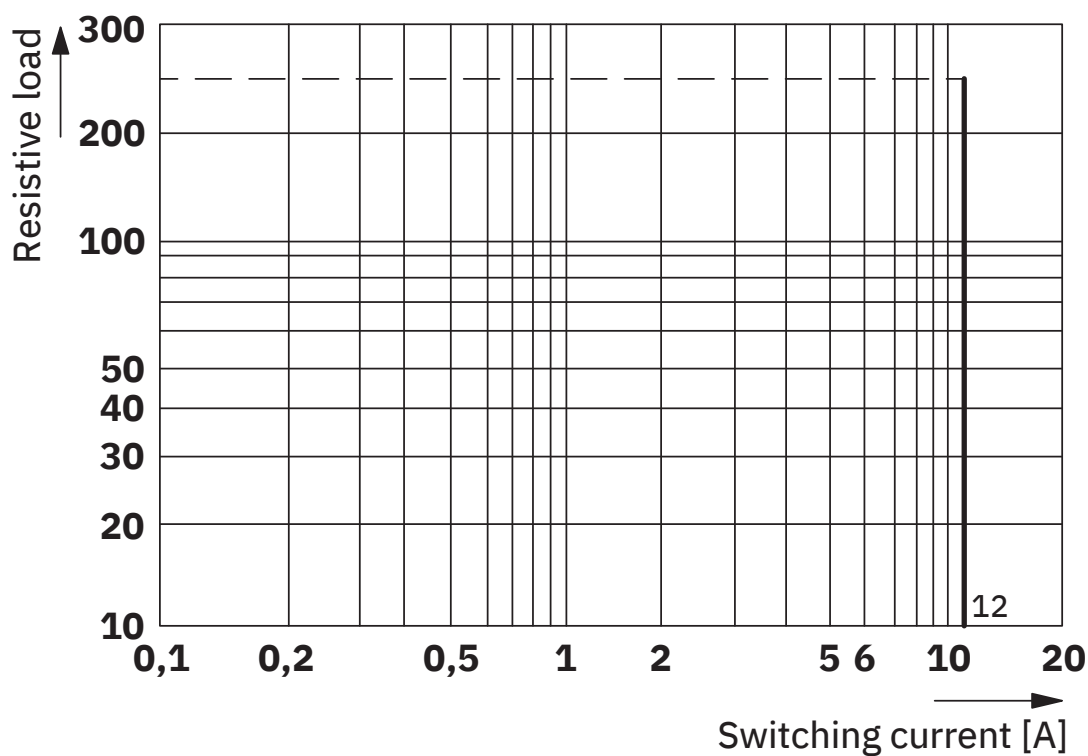
Operating voltage range

Diagram



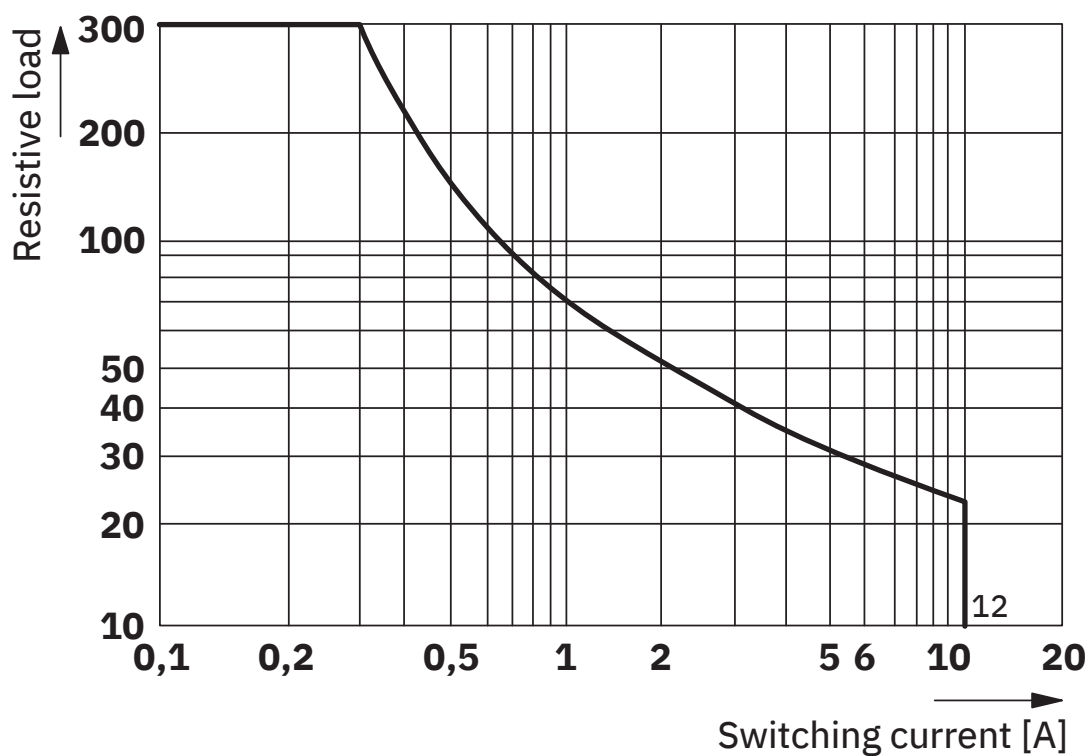
Electrical service life

Diagram



Interrupting rating AC

Diagram



Interrupting rating DC

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Approvals

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cULus Recognized

Approval ID: E172140

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Classifications

ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

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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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