

REL-OR3/L-230AC/3X21 - Single relay



2903696

<https://www.phoenixcontact.com/au/products/2903696>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Plug-in octal relays with power contacts, 3 changeover contacts, test button, mechanical switching position indicator, input voltage: 230 V AC

Commercial data

Item number	2903696
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	DK6953
Product key	DK6953
Catalog page	Page 308 (C-5-2019)
GTIN	4046356759090
Weight per piece (including packing)	87.78 g
Weight per piece (excluding packing)	87.78 g
Customs tariff number	85364900
Country of origin	PL

REL-OR3/L-230AC/3X21 - Single relay



2903696

<https://www.phoenixcontact.com/au/products/2903696>

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
Operating mode	100% operating factor
Mechanical service life	approx. 2×10^7 cycles

Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	3

Data management status

Date of last data management	20.03.2025
------------------------------	------------

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	2.99 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	4 kV

Input data

Coil side

Nominal input voltage U_N	230 V AC
Input voltage range	195.5 V AC ... 253 V AC (20 °C)
Mains frequency	50/60 Hz
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U_N	13 mA
Input power dissipation for U_N	2.6 W
Typical response time	5 ms ... 15 ms (depending on phase relation)
Typical release time range	5 ms ... 20 ms (depending on phase relation)
Status display	LED (yellow)
Coil resistance	7080 $\Omega \pm 15\%$

Output data

REL-OR3/L-230AC/3X21 - Single relay



2903696

<https://www.phoenixcontact.com/au/products/2903696>

Switching

Contact switching type	3 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V DC
	440 V AC
Minimum switching voltage	10 V (At 24 mA)
Limiting continuous current	10 A
Maximum inrush current	30 A (20 ms, N/O contacts)
Min. switching current	10 mA (at 24 V)
Interrupting rating (ohmic load) max.	240 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)
	2500 VA (for 250 V AC)

Connection data

Connection method	Plug-in connection
-------------------	--------------------

Dimensions

Width	35 mm
Height	35 mm
Depth	54.4 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	RT I
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 55 °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

Standards/regulations	IEC 60664
	IEC 61810

Mounting

REL-OR3/L-230AC/3X21 - Single relay



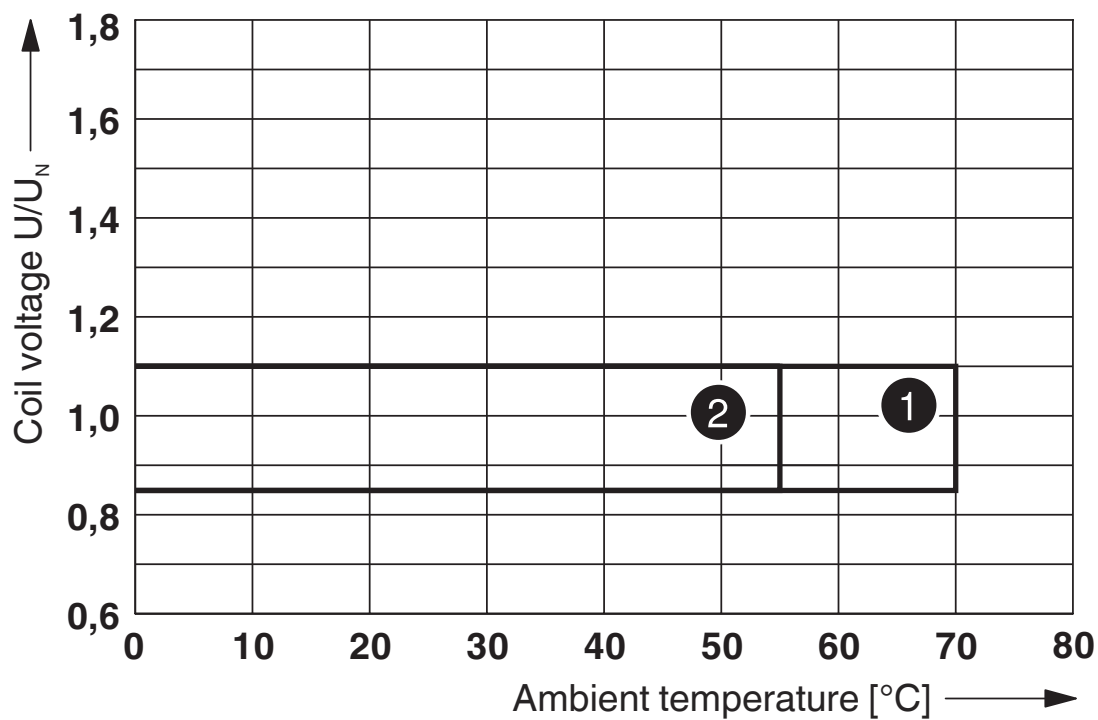
2903696

<https://www.phoenixcontact.com/au/products/2903696>

Mounting position	any
-------------------	-----

Drawings

Diagram

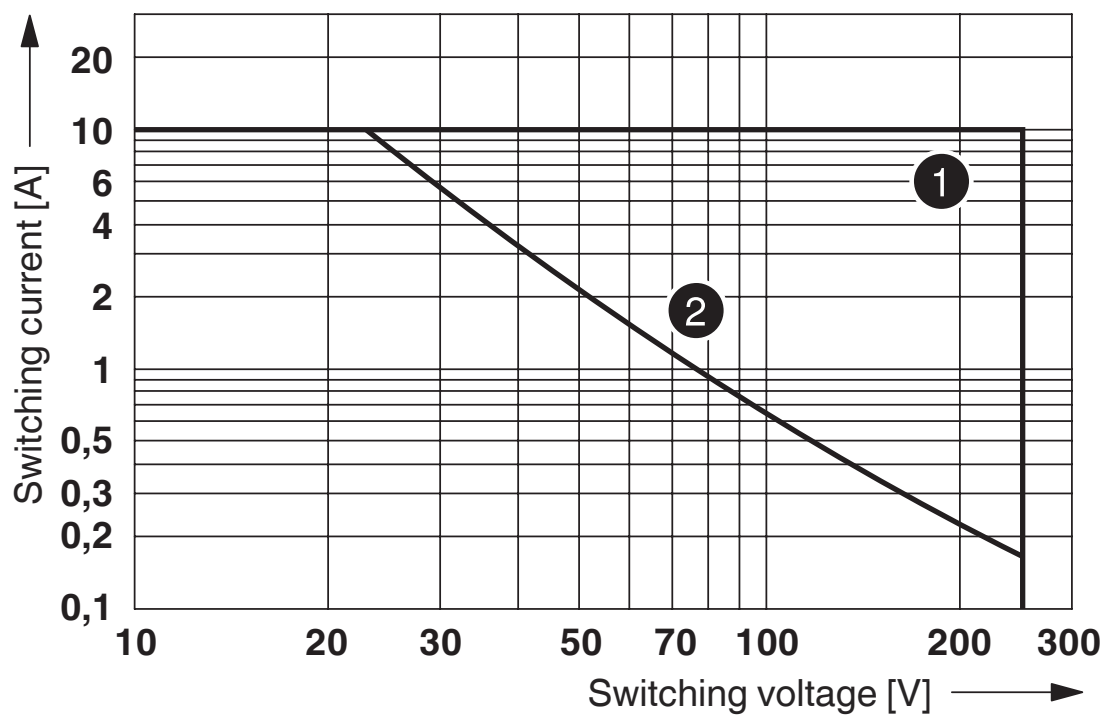


① DC coils

② AC coils

Operating voltage range

Diagram

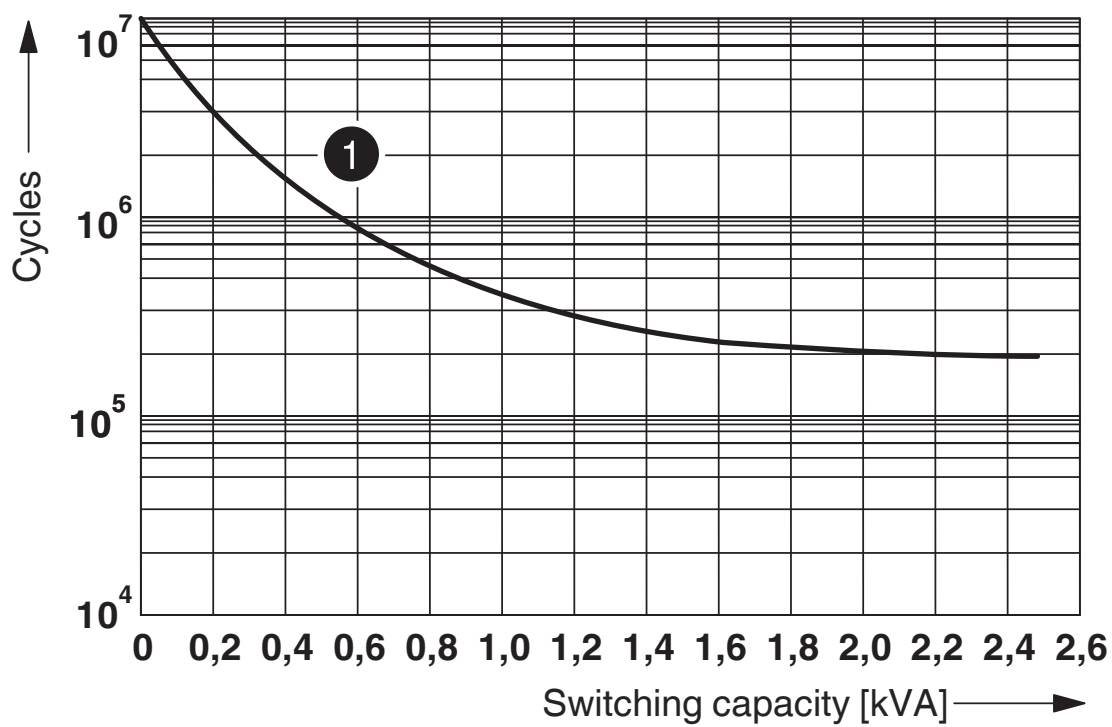


① AC, ohmic load

② DC, ohmic load

Interrupting rating

Diagram



250 V AC, ohmic load

Electrical service life

Diagram



Service life reduction factor

Diagram



Permissible humidity for operation and storage.

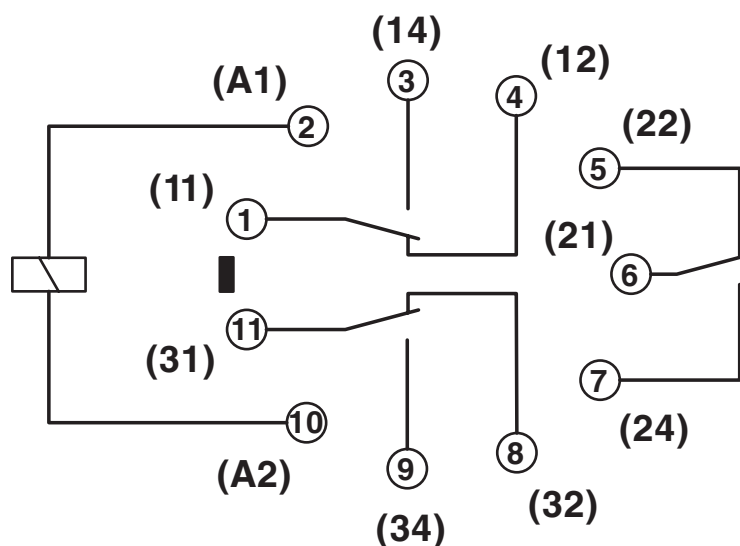
The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures $\leq 0^{\circ}\text{C}$ must be prevented

Area B: Condensation at ambient temperatures $> 0^{\circ}\text{C}$ 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 $\leq 25^{\circ}\text{C}$.

Circuit diagram



REL-OR3/L-230AC/3X21 - Single relay



2903696

<https://www.phoenixcontact.com/au/products/2903696>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/2903696>



CSA

Approval ID: 256725



EAC

Approval ID: RU*C-DE.*08.B.00010



VDE Zeichengenehmigung

Approval ID: 40036588



cULus Recognized

Approval ID: E172140

REL-OR3/L-230AC/3X21 - Single relay



2903696

<https://www.phoenixcontact.com/au/products/2903696>

Classifications

ECLASS

ECLASS-13.0	27371601
-------------	----------

ETIM

ETIM 9.0	EC001437
----------	----------

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

REL-OR3/L-230AC/3X21 - Single relay



2903696

<https://www.phoenixcontact.com/au/products/2903696>

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%

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT PTY Ltd
Unit 7, 2-8 South Street
Rydalmere NSW 2116
1300 786 411
customerservice@phoenixcontact.com.au