

Single relay - REL-PR3- 24DC/3X21 - 2903702


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Plug-in high-power relay with power contacts, 3 changeover contacts, coil voltage: 24 V DC



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 759144
GTIN	4046356759144

Technical data

Note

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

Dimensions

Width	38.6 mm
Height	36.1 mm
Depth	45.5 mm

Ambient conditions

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

Coil side

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Coil side

Nominal input voltage U_N	24 V DC
Typical input current at U_N	56 mA
Typical response time	20 ms
Typical release time	15 ms
Coil resistance	430 Ω \pm 10 %
Power dissipation for nominal condition	1.34 W

Contact side

Contact type	3 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	440 V AC 250 V DC
Minimum switching voltage	10 V (At 24 mA)
Min. switching current	10 mA (at 24 V)
Maximum inrush current	50 A (20 ms, N/O contacts)
Limiting continuous current	16 A
Interrupting rating (ohmic load) max.	384 W (at 24 V DC) 124 W (at 48 V DC) 108 W (at 60 V DC) 52 W (at 110 V DC) 70 W (at 220 V DC)
	4000 VA (for 250 V AC) 4000 VA (at 440 V AC)
3-phase motor load	1500 W (at 400 V, AC3)
Motor load according to UL 508	1/3 HP, 120 V AC (single-phase AC motor) 1/2 HP, 240 V AC (single-phase AC motor) 1/2 HP, 240 V AC (three-phase induction motor)

General

Test voltage	2.5 kV _{rms} (50 Hz, 1 min., winding/contact) 2.5 kV _{rms} (50 Hz, 1 min., changeover contact/changeover contact)
Operating mode	100% operating factor
Mechanical service life	approx. 10 ⁷ cycles
Service life, electrical	see diagram
Mounting position	any

Connection data

Connection method	Plug connection
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Standards and Regulations

Connection in acc. with standard	CSA
Standards/regulations	IEC 60664

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Standards and Regulations

	IEC 61810
Rated insulation voltage	250 V AC
Rated surge voltage	4 kV
Insulation	Basic insulation
Pollution degree	3
Overvoltage category	III

Conformance/approvals

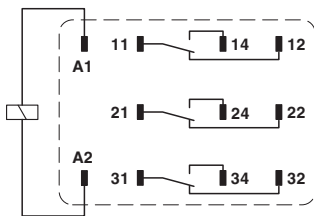
Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

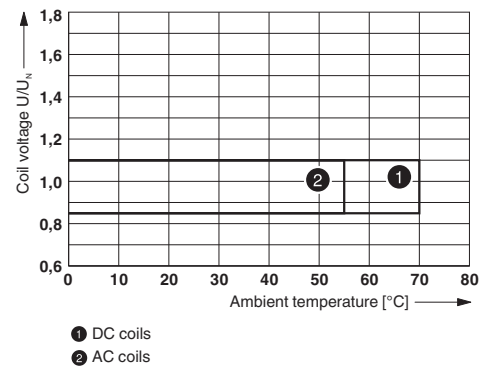
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Circuit diagram



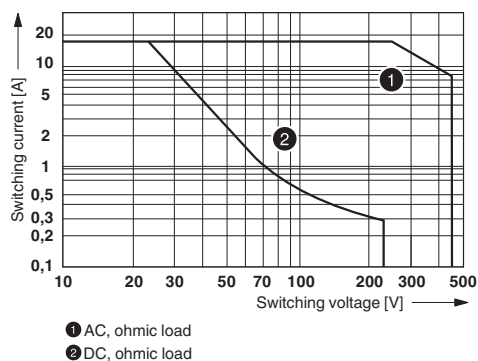
Diagram



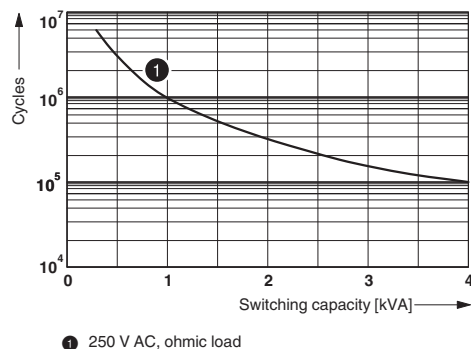
Operating voltage range

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Diagram



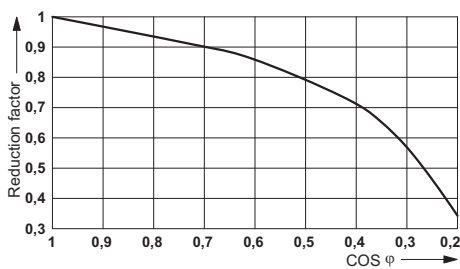
Diagram



Interrupting rating

Electrical service life

Diagram



Service life reduction factor

Classifications

eCl@ss

eCl@ss 10.0.1	27371601
eCl@ss 11.0	27371601
eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27371600
eCl@ss 5.1	27371600
eCl@ss 6.0	27371600
eCl@ss 7.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437

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Classifications

ETIM

ETIM 5.0	EC001437
ETIM 6.0	EC001437
ETIM 7.0	EC001437

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39122334
UNSPSC 18.0	39122334
UNSPSC 19.0	39122334
UNSPSC 20.0	39122334
UNSPSC 21.0	39122334

Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

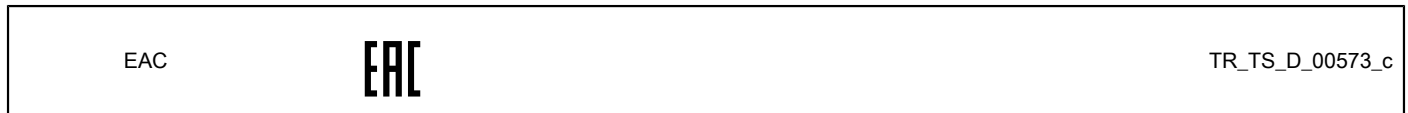
CSA		http://www.csagroup.org/services-industries/product-listing/	2554095
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UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
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Approvals



Accessories

Additional products

Relay base - RIF-4-BPT/3X21 - 2900961



Relay base RIF-4..., for high-power relay with 2 or 3 changeover contacts or 3 N/O contacts, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

Relay base - RIF-4-BSC/3X21 - 2900960



RIF-4... relay base, for high-power relay with 2 or 3 changeover contacts or 3 N/O contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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