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Single relay - REL-PR2- 24AC/2X21 - 2903699

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Plug-in high-power relay with power contacts, 2 PDTs, coil voltage: 24 V AC

The figure shows version REL-PR2-24DC/2X21

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	34.0 GRM
Custom tariff number	85364190
Country of origin	Poland

Technical data

Dimensions

Width	38.6 mm
Height	45.5 mm
Depth	36.1 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Coil side

Nominal input voltage U_N	24 V AC
Input voltage range in reference to U_N	(see diagram)
Nominal input current at U_{IN}	116 mA
Typical response time	5 ms ... 25 ms (depending on phase relation)
Typical release time range	5 ms ... 20 ms (depending on phase relation)
Status display	Yellow LED

PHŒNIX CONTACT

Single relay - REL-PR2- 24AC/2X21 - 2903699

Technical data

Contact side

Contact type	Single contact, 2-PDT
Contact material	AgNi
Maximum switching voltage	440 V AC
	250 V DC
Minimum switching voltage	10 V (At 24 mA)
Maximum inrush current	50 A (20 ms, N/O contact)
Min. switching current	10 mA (at 24 V)
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)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
	0.22 A (at 120 V, DC13)
	0.11 A (at 250 V, DC13)
	3 A (at 120 V, AC15)
	1.5 A (at 240 V, AC15)
Single-phase motor load	800 W (bei 230 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)

General

Test voltage relay winding/relay contact	2.5 kV$_{rms}$ (50 Hz, 1 min.)
Test voltage relay contact/relay contact	2.5 kV$_{rms}$ (50 Hz, 1 min.)
Test voltage PDT/PDT	2.5 kV$_{rms}$ (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	RT I
Mechanical service life	Approx. 10^7 cycles
Name	Air and creepage distances between the power circuits
Standards/regulations	IEC 60664
Rated insulation voltage	250 V AC
Pollution degree	3
Surge voltage category	III
Name	Standards/regulations

Single relay - REL-PR2- 24AC/2X21 - 2903699

Technical data

General

Standards/regulations	IEC 61810
Mounting position	any

Connection data

Connection method	Plug connection

Classifications

eCl@ss

eCl@ss 4.0	27371104
eCl@ss 4.1	27371104
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371001

ETIM

ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC000196

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

Approvals

Approvals

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CSA / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

PHŒNIX CONTACT

Single relay - REL-PR2- 24AC/2X21 - 2903699

Approvals

Approvals submitted

Approval details

CSA

UL Recognized

cUL Recognized

cULus Recognized

Accessories

Accessories

Relay socket

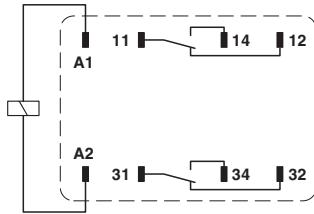Relay socket - RIF-4-BPT/3X21 - 2900961

RIF-4... relay base, for high-power relay with 2 or 3 PDTs or 3 N/O contacts, push-in connection, plug-in option for input/ suppressor modules, for mounting on NS 35/7,5
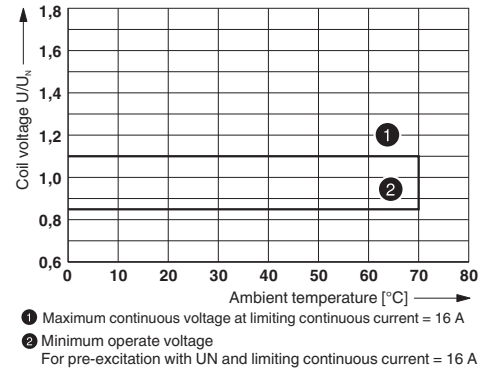
Drawings

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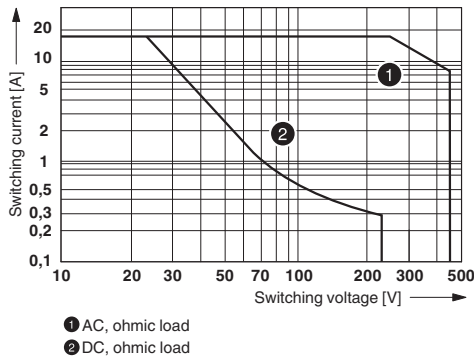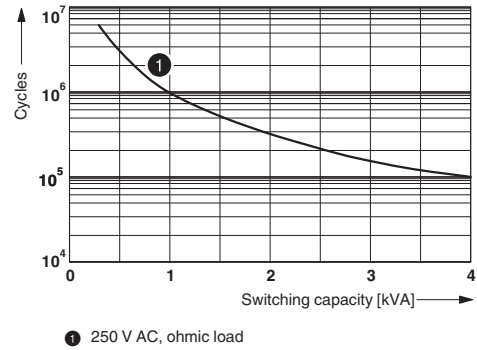# Single relay - REL-PR2- 24AC/2X21 - 2903699

Circuit diagram

Diagram

❶ Maximum continuous voltage at limiting continuous current = 16 A
❷ Minimum operate voltage
For pre-excitation with UN and limiting continuous current = 16 A

Operating voltage range

Diagram

❶ AC, ohmic load
❷ DC, ohmic load

Interrupting rating

Diagram

❶ 250 V AC, ohmic load
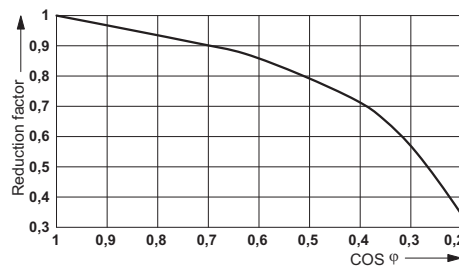
Electrical service life

Diagram

Service life reduction factor