



Automatización Eléctrica
Especialistas en Automatización

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Single relay - REL-PR3-120AC/3X21 - 2903704

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Plug-in high-power relay with power contacts, 3 PDTs, coil voltage: 120 V AC

The figure shows version REL-PR3-24DC/3X21

Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 759168

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	120 V AC
Input voltage range in reference to U_N	see diagram
Mains frequency	50 Hz 60 Hz
Typical input current at U_N	23 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

Contact side

Contact type	3 PDTs
Contact material	AgNi
Maximum switching voltage	440 V AC

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Technical data

Contact side

	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 contact)
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 24 V, AC15)
	3 A (at 120 V, AC15)
	1.5 A (at 240 V, AC15)
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 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
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	IEC 60664
Rated insulation voltage	250 V AC
Degree of pollution	3
Overvoltage category	III
Designation	Standards/regulations
Standards/regulations	IEC 61810
Mounting position	any

Standards and Regulations

Connection in acc. with standard	CSA
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Technical data

Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	IEC 60664
Rated insulation voltage	250 V AC
Insulation	Basic insulation
Degree of pollution	3
Overvoltage category	III
Designation	Standards/regulations
Standards/regulations	IEC 61810

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	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC001437

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 / EAC / cULus Recognized

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Approvals

Ex Approvals

Approvals submitted

Approval details

CSA

UL Recognized

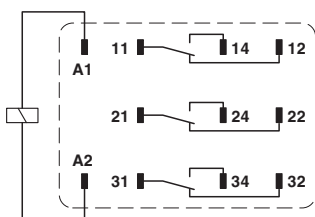
cUL Recognized

EAC

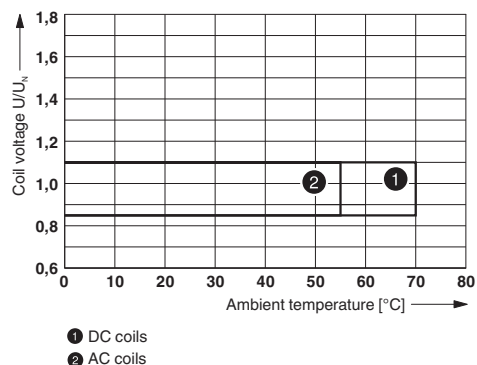
cULus Recognized

Drawings

Circuit diagram



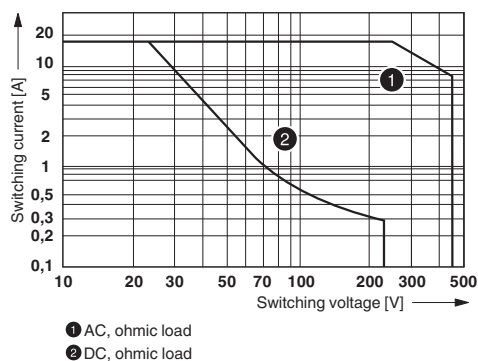
Diagram



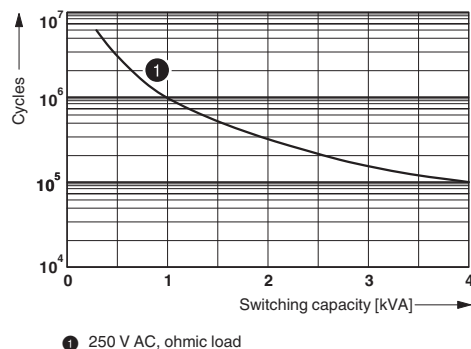
Operating voltage range

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Diagram



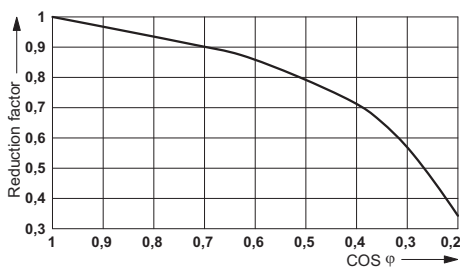
Diagram



Interrupting rating

Electrical service life

Diagram



Service life reduction factor

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