

Single relay - REL-MR-110DC/21-21 - 2961202

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Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 110 V DC

Why buy this product

- RT III wash tight (comparable with IP67)
- Switching current of up to 8 A



Key commercial data

Packing unit	10 pc
Minimum order quantity	10 pc
GTIN	 4 017918 158002
Weight per Piece (excluding packing)	16.26 g
Custom tariff number	85364900
Country of origin	Austria

Technical data

Dimensions

Width	12.7 mm
Height	29 mm
Depth	15.7 mm

Ambient conditions

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

Coil side

Nominal input voltage U_N	110 V DC
Typical input current at U_N	4.1 mA
Typical response time	7 ms
Typical release time	3 ms

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Technical data

Coil side

Coil resistance	26600 Ω ±15 % (at 20 °C)
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Contact side

Contact type	2 PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 10 mA)
Maximum inrush current	25 A (20 ms)
Min. switching current	10 mA (At 5 V)
Limiting continuous current	8 A
Interrupting rating (ohmic load) max.	190 W (at 24 V DC)
	85 W (at 48 V DC)
	60 W (at 60 V DC)
	44 W (at 110 V DC)
	60 W (at 220 V DC)
	2000 VA (for 250 V AC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
	0.2 A (at 250 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 250 V, AC15)

General

Test voltage relay winding/relay contact	5 kV AC (50 Hz, 1 min.)
Test voltage relay contact/relay contact	2.5 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	3 x 10 ⁷ cycles
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage/insulation	Basic insulation
Pollution degree	3
Surge voltage category	III
Mounting position	any
Assembly instructions	Can be aligned without spacing (> 70 °C ≥ 2.5 mm)

Classifications

eCl@ss

eCl@ss 4.0	27371104
eCl@ss 4.1	27371104

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Classifications

eCl@ss

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

ETIM

ETIM 2.0	EC000196
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

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UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / GL / cUL Recognized / UL Recognized / EAC / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized

VDE Gutachten mit Fertigungsüberwachung

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Approvals

cUL Recognized

GL

cUL Recognized

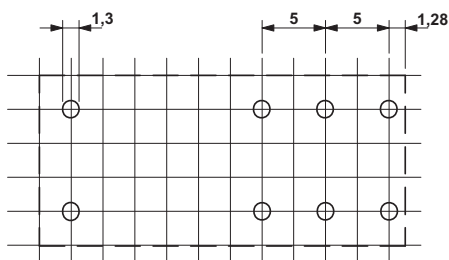
UL Recognized

EAC

cULus Recognized

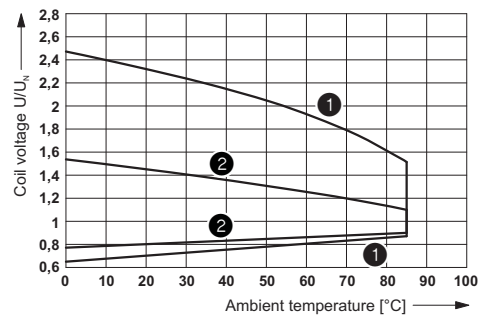
Drawings

Drilling diagram



a = pitch division 2.5 mm

Diagram

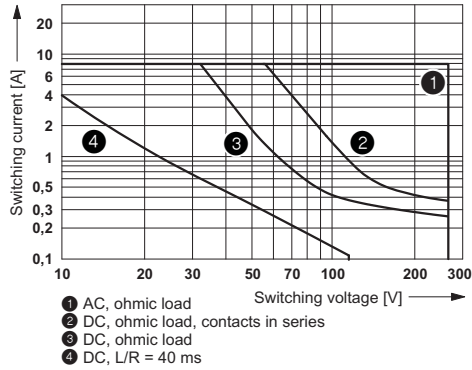


- ① DC coils
- ② AC coils

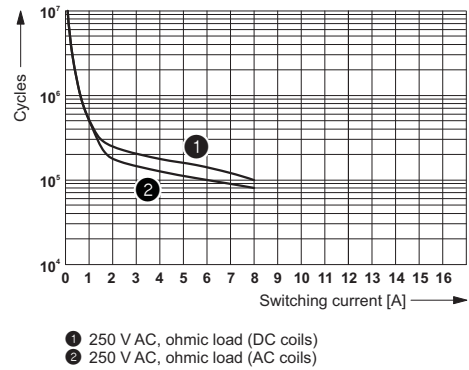
Operating voltage range

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Diagram



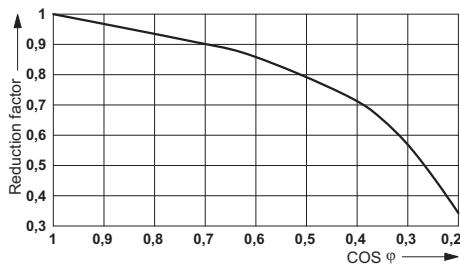
Diagram



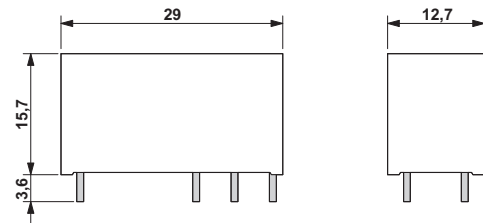
Interrupting rating

Electrical service life

Diagram



Dimensioned drawing



Service life reduction factor with various cos phi

Circuit diagram

