

Single relay - REL-MR-BL- 24AC/21-21 - 1109546


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Pluggable miniature power relay in basic design, with power contact, 2 changeover contacts, input voltage 24 V AC



Key Commercial Data

Packing unit	20 pc
GTIN	 4 063151 020019
GTIN	4063151020019
Weight per Piece (excluding packing)	14.000 g
Weight per piece (including packing)	14.000 g
Custom tariff number	85364900
Country of origin	Austria
Note	Made to Order (non-returnable)

Technical data

Dimensions

Width	12.7 mm
Height	29 mm
Depth	15.7 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	RT II

Coil side

Nominal input voltage U_N	24 V AC
Mains frequency	50/60 Hz
Typical input current at U_N	31.6 mA
Typical response time	3 ms ... 12 ms (depending on phase relation)

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Technical data

Coil side

Typical release time range	2 ms ... 9 ms (depending on phase relation)
Coil voltage	24 V AC
Coil resistance	350 Ω ±10 %
Power dissipation for nominal condition	0.4 W

Contact side

Contact type	2 PDT
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 10 mA)
Min. switching current	10 mA (At 5 V)
Maximum inrush current	12 A (20 ms)
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	2 A (at 24 V, DC13)
	1.5 A (at 230 V, AC15)

General

Test voltage relay winding/relay contact	5 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	5x 10 ⁶ cycles
Service life, electrical	see diagram
Mounting position	any

Connection data

Connection method	Solder connection
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Standards and Regulations

Standards/regulations	IEC 60664
	EN 61810-1
Rated insulation voltage	250 V AC
Rated surge voltage	4 kV
Insulation	Basic insulation
Pollution degree	3
Overvoltage category	III

Environmental Product Compliance

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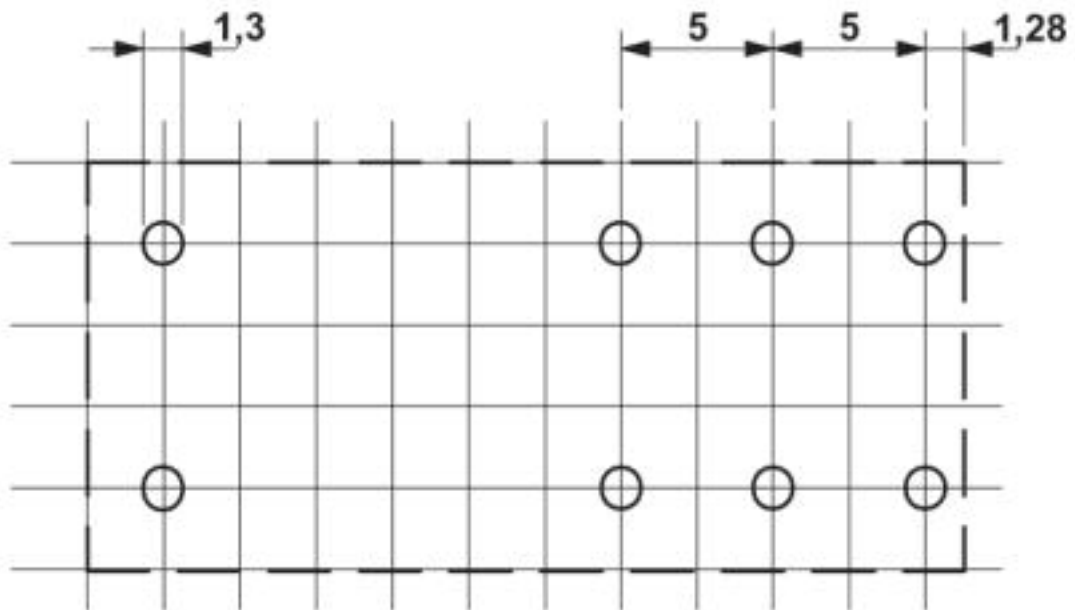
Technical data

Environmental Product Compliance

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

Drawings

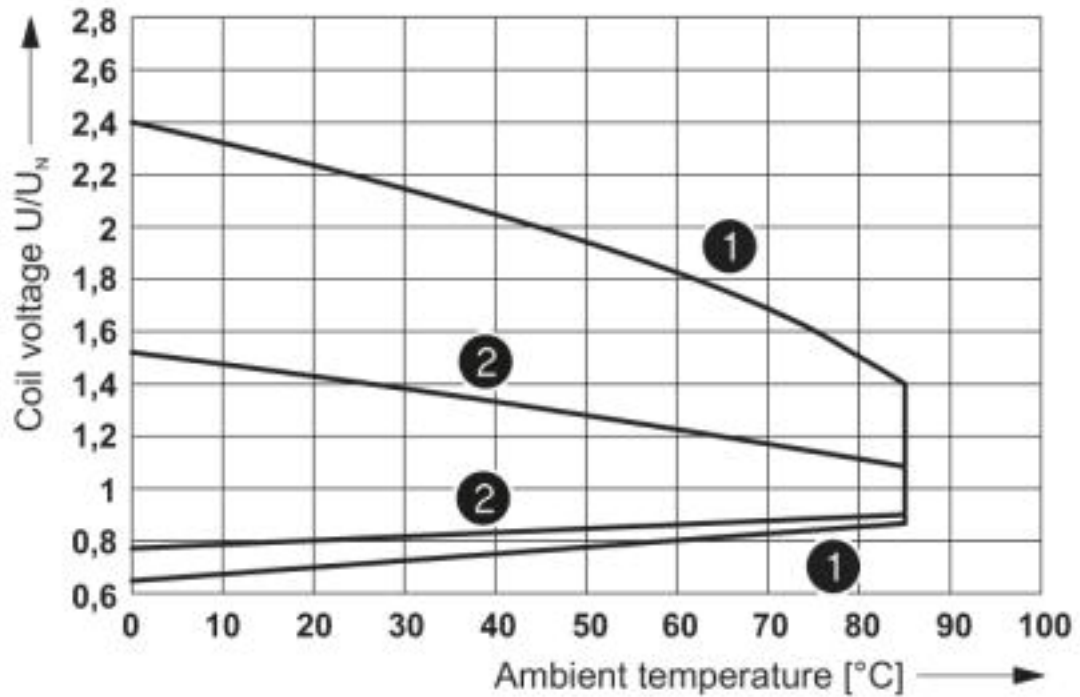
Drilling diagram



Basic pitch 2.5 mm

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Diagram

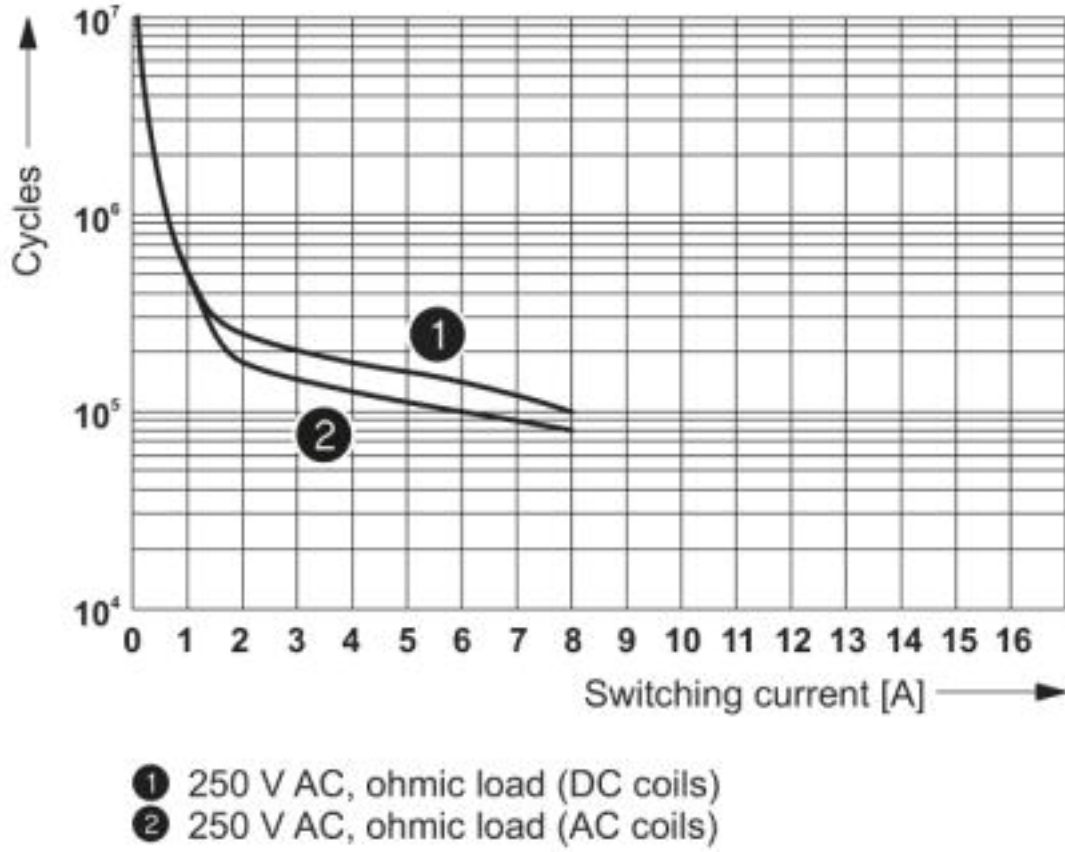


- ① DC coils
- ② AC coils

Operating voltage range

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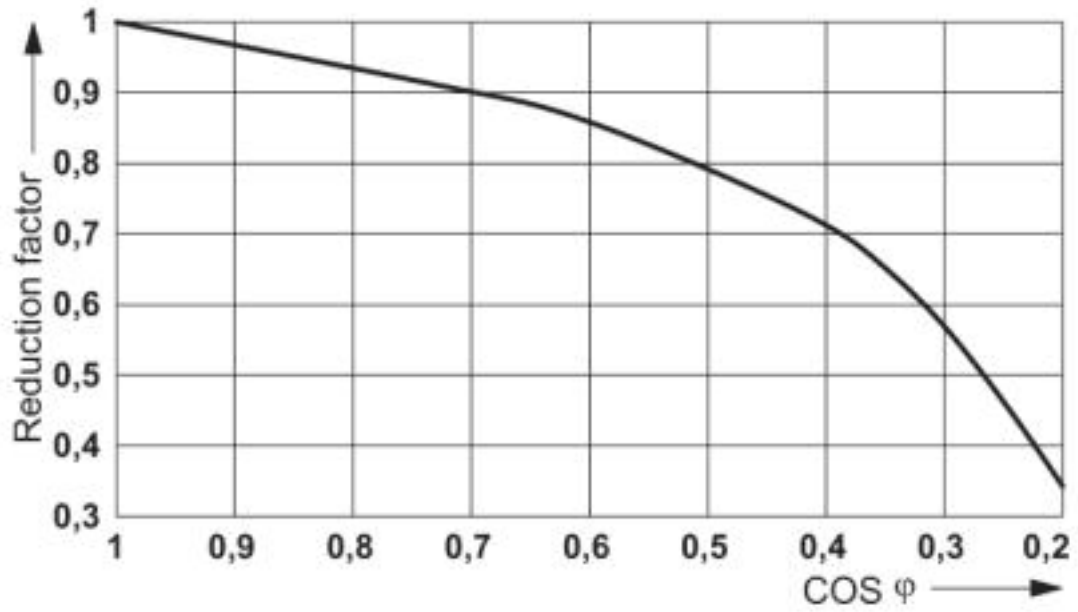
Diagram



Electrical service life

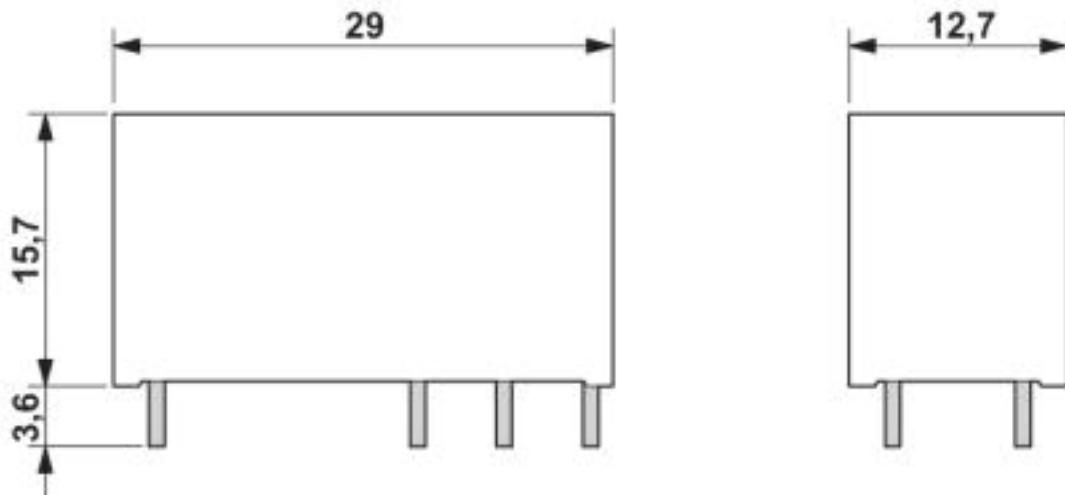
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Diagram



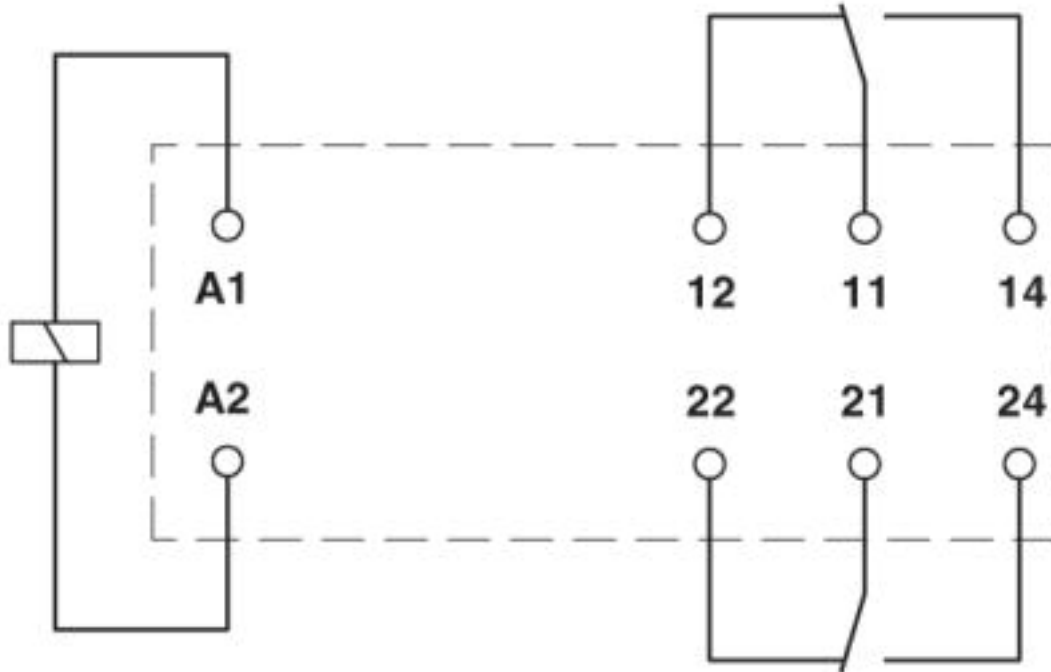
Service life reduction factor with various cos phi

Dimensional drawing



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Circuit diagram



Classifications

eCl@ss

eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 5.0	EC001437
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Approvals

Approvals

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UL Recognized / cUL Recognized / cULus Recognized


Ex Approvals


Approval details

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Approvals

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 228652
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 228652
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cULus Recognized			
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