

Single relay - REL-MR-BL-24DC/21-21/MS - 2908181

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Plug-in miniature relay, with power contact, 2 changeover contacts, test button, mechanical switch position indicator, polarity: bipolar, input voltage: 24 V DC

RoHS

Key Commercial Data

Packing unit	10 pc
Minimum order quantity	10 pc
GTIN	 4 055626 279404
GTIN	4055626279404

Technical data

Dimensions

Width	13 mm
Height	29 mm
Depth	25.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.8 ... 2.2 (see diagram)
Typical input current at U_N	17 mA
Typical response time	9 ms
Typical release time	6 ms
Power dissipation for nominal condition	0.41 W

Contact side

Contact type	2 PDT
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Technical data

Contact side

Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Min. switching current	10 mA (at 12 V)
Maximum inrush current	16 A (20 ms)
Limiting continuous current	8 A
Interrupting rating (ohmic load) max.	192 W (at 24 V DC)
	62 W (at 48 V DC)
	42 W (at 60 V DC)
	55 W (at 110 V DC)
	66 W (at 220 V DC)

General

Test voltage relay winding/relay contact	5 kV AC (50 Hz, 1 min.)
Test voltage PDT/PDT	2.5 V AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	RT II
Mechanical service life	5x 10 ⁶ cycles
Service life, electrical	see diagram
Mounting position	any

Standards and Regulations

Standards/regulations	IEC 61810
	IEC 60664
Rated insulation voltage	250 V AC
Degree of pollution	2
Overvoltage category	III

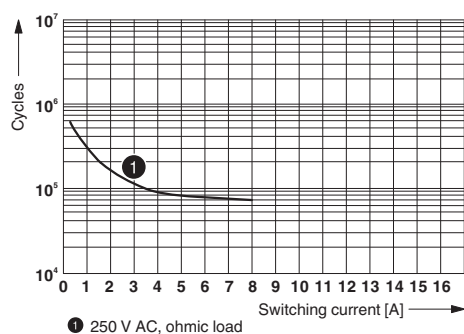
Environmental Product Compliance

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

Drawings

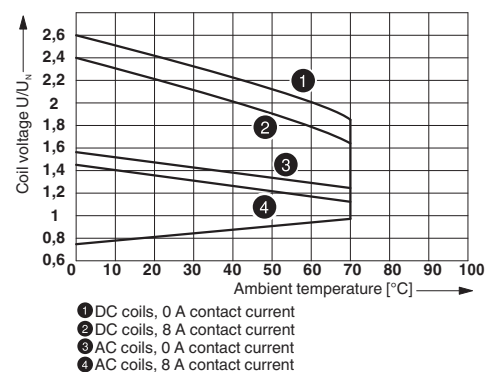
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Diagram



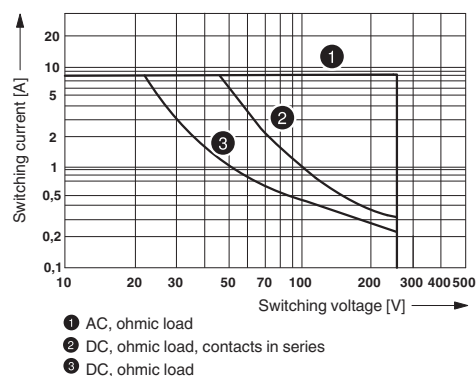
Electrical service life

Diagram



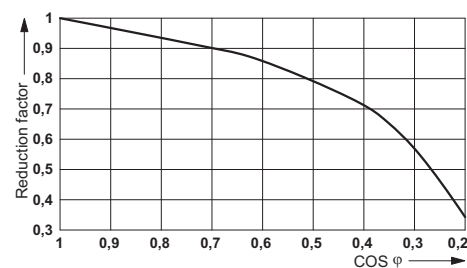
Operating voltage range

Diagram



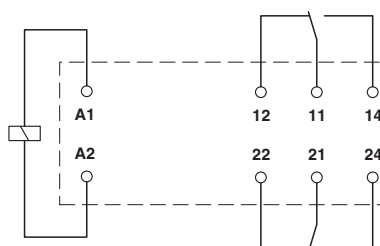
Interrupting rating

Diagram



Service life reduction factor with various $\cos \phi$

Circuit diagram



Approvals

Approvals

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UL Recognized / cUL Recognized / EAC / cULus Recognized

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Approvals

Ex Approvals

Approval details

UL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 195083

cUL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 195083

EAC



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DE.A*30.B.01082

cULus Recognized



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