

Single relay - REL-PR1-24DC/1/MB - 2908040


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Plug-in high-power relay with power contacts, specifically for switching high DC loads, 1 N/O contact, blowout magnet, coil voltage: 24 V DC



Key Commercial Data

Packing unit	1 pc
GTIN	 4 0 5 5 6 2 6 2 6 6 4 7 3
GTIN	4055626266473

Technical data

Dimensions

Width	38.6 mm
Height	36.1 mm
Depth	45.5 mm

Ambient conditions

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

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	see diagram
Typical input current at U_N	70 mA
Typical response time	20 ms
Typical release time	15 ms
Power dissipation for nominal condition	1.68 W

Contact side

Contact type	1 N/O contact
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Single relay - REL-PR1-24DC/1/MB - 2908040

Technical data

Contact side

Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	440 V AC 250 V DC
Minimum switching voltage	5 V (At 24 mA)
Min. switching current	5 mA (at 24 V)
Maximum inrush current	50 A (20 ms) 30 A (4 s)
Limiting continuous current	16 A
Interrupting rating (ohmic load) max.	384 W (at 24 V DC) 744 W (at 48 V DC) 900 W (at 60 V DC) 1540 W (at 110 V DC) 2640 W (at 220 V DC) 4000 VA (for 250 V AC)
Switching capacity min.	120 mW
Switching capacity	1 A (220 V, DC13) 1.5 A (240 V, AC15) 16 A (24 V DC, L/R = 40 ms) 12 A (48 V DC, L/R = 40 ms) 9.5 A (60 V DC, L/R = 40 ms) 5.4 A (110 V DC, L/R = 40 ms) 3 A (220 V DC, L/R = 40 ms) 2.7 A (250 V DC, L/R = 40 ms)

General

Test voltage relay winding/relay contact	2.5 kV
Operating mode	100% operating factor
Mechanical service life	approx. 2×10^7 cycles
Service life, electrical	see diagram
Mounting position	any

Connection data

Connection method	Plug connection
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Standards and Regulations

Standards/regulations	IEC 60664 IEC 61810
Rated surge voltage	4 kV
Pollution degree	3
Overvoltage category	III

Environmental Product Compliance

Single relay - REL-PR1-24DC/1/MB - 2908040

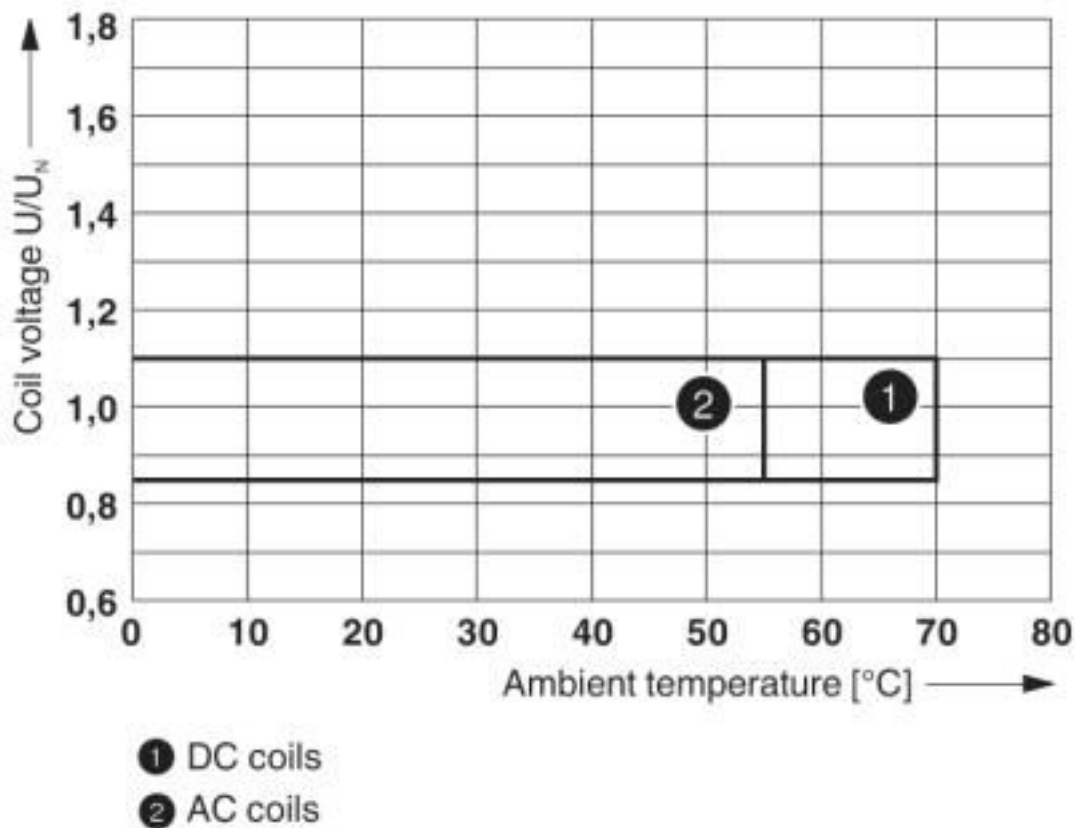
Technical data

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

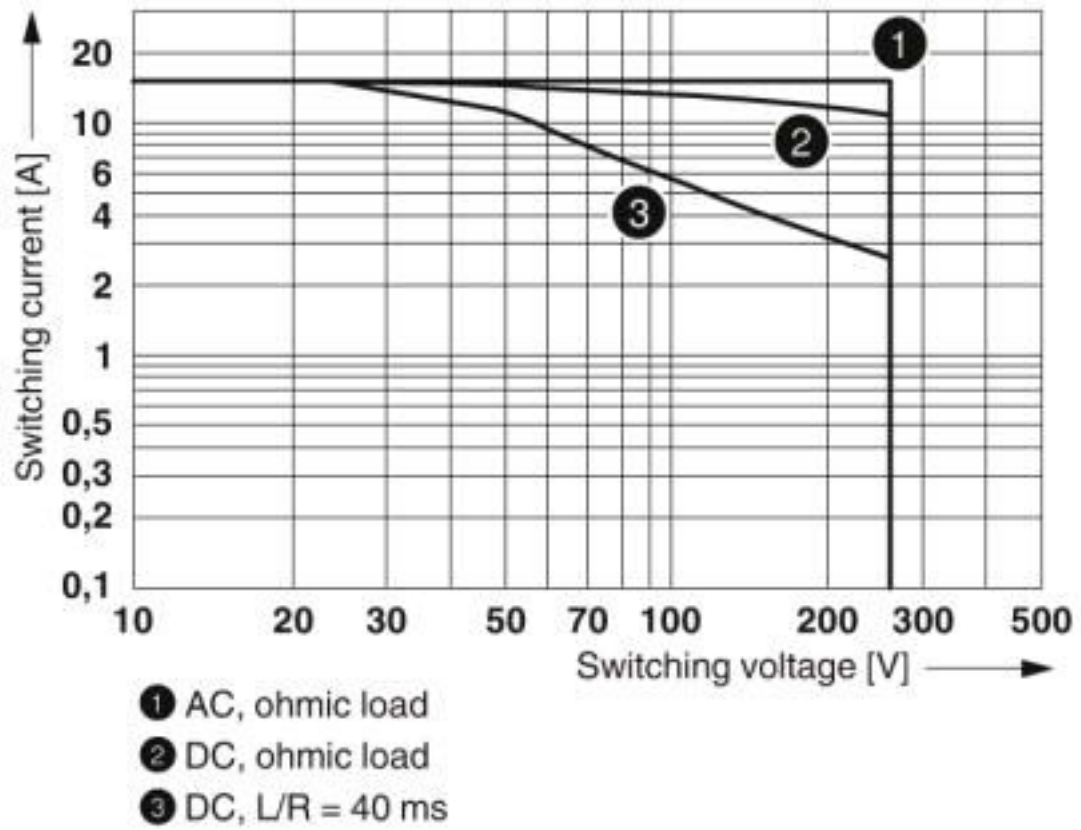
Diagram



Operating voltage range

Single relay - REL-PR1-24DC/1/MB - 2908040

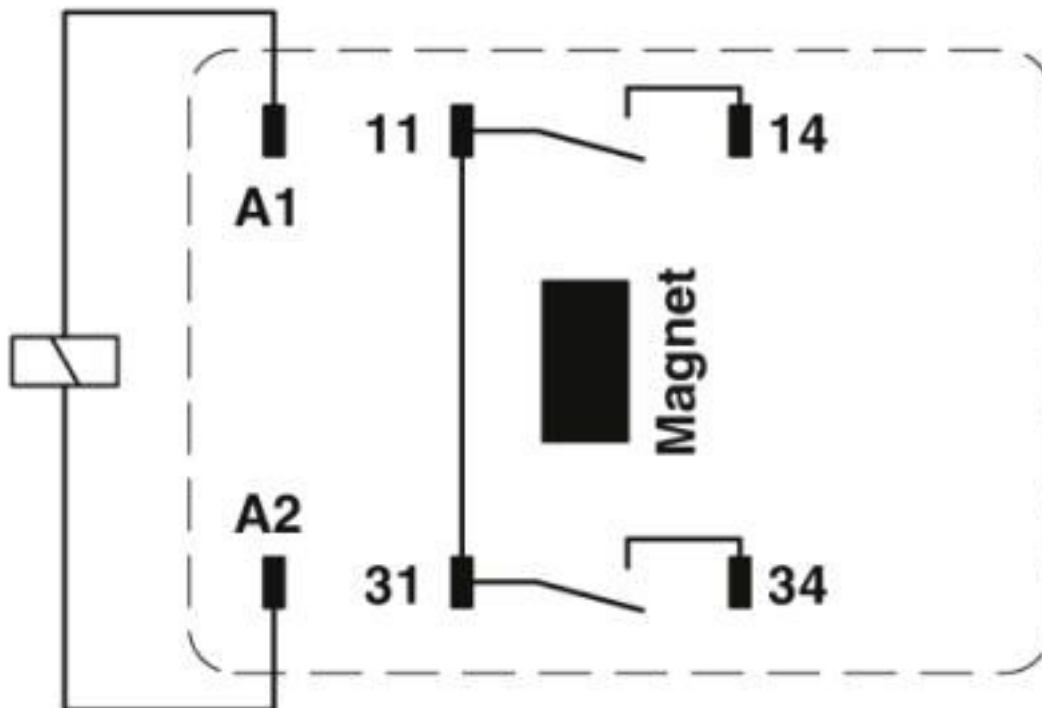
Diagram



Interrupting rating

Single relay - REL-PR1-24DC/1/MB - 2908040

Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27371601
eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27371600
eCl@ss 5.1	27371600
eCl@ss 6.0	27371600
eCl@ss 7.0	27371601
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437
ETIM 5.0	EC001437
ETIM 6.0	EC001437
ETIM 7.0	EC001437

Single relay - REL-PR1-24DC/1/MB - 2908040

Classifications

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39122334
UNSPSC 18.0	39122334
UNSPSC 19.0	39122334
UNSPSC 20.0	39122334
UNSPSC 21.0	39122334

Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized


Ex Approvals

Approval details

CSA		http://www.csagroup.org/services-industries/product-listing/	70084446
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UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
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EAC			TR_TS_D_00573_c
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EAC			RU*C- DE.*08.B.00010
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Single relay - REL-PR1-24DC/1/MB - 2908040

Approvals

cULus Recognized



Accessories

Additional products

Relay base - 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

Relay base - RIF-4-BSC/3X21 - 2900960



RIF-4... relay base, for high-power relay with 2 or 3 changeover contacts or 3 N/O contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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