

# Single relay - REL-PR1-110DC/1/MB - 2908044

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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: 110 V DC



## Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626266770

## 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 $U_N$	110 V DC
Input voltage range in reference to $U_N$	see diagram
Typical input current at $U_N$	15 mA
Typical response time	20 ms
Typical release time	15 ms
Power dissipation for nominal condition	1.65 W

### Contact side

Contact type	1 N/O contact
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## 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. $2 \times 10^7$ 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-PR1-110DC/1/MB - 2908044

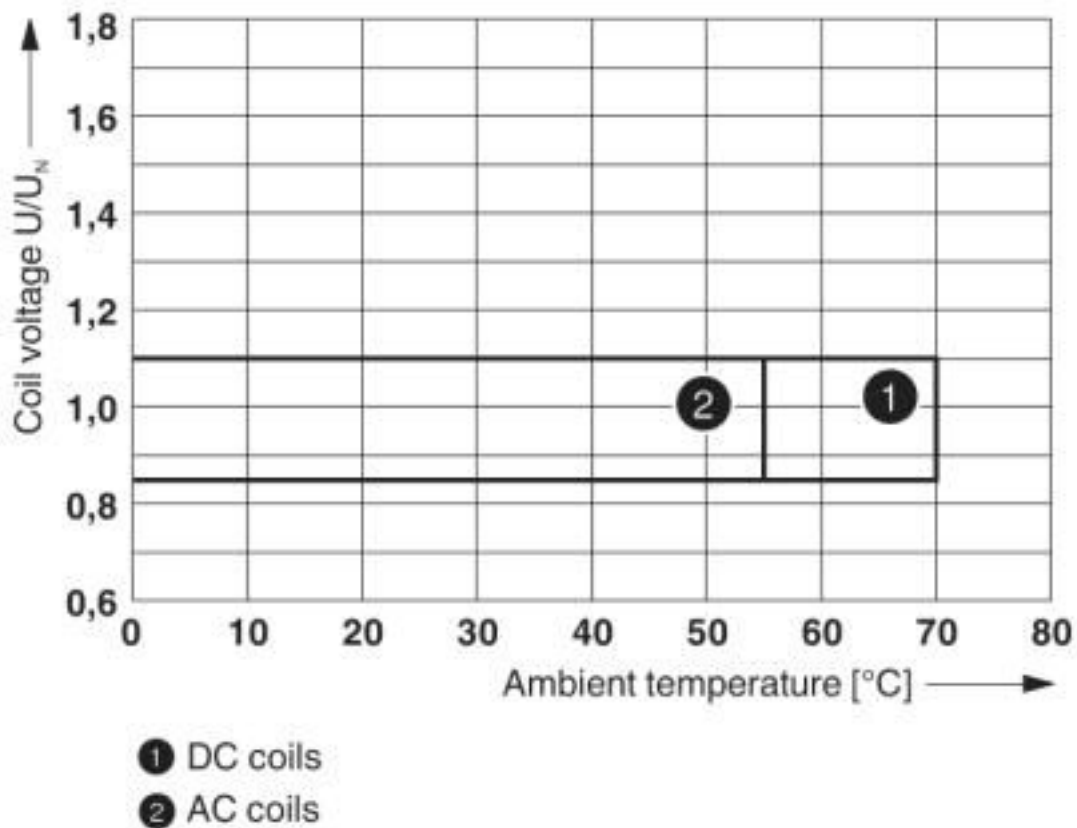
## Technical data

### 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

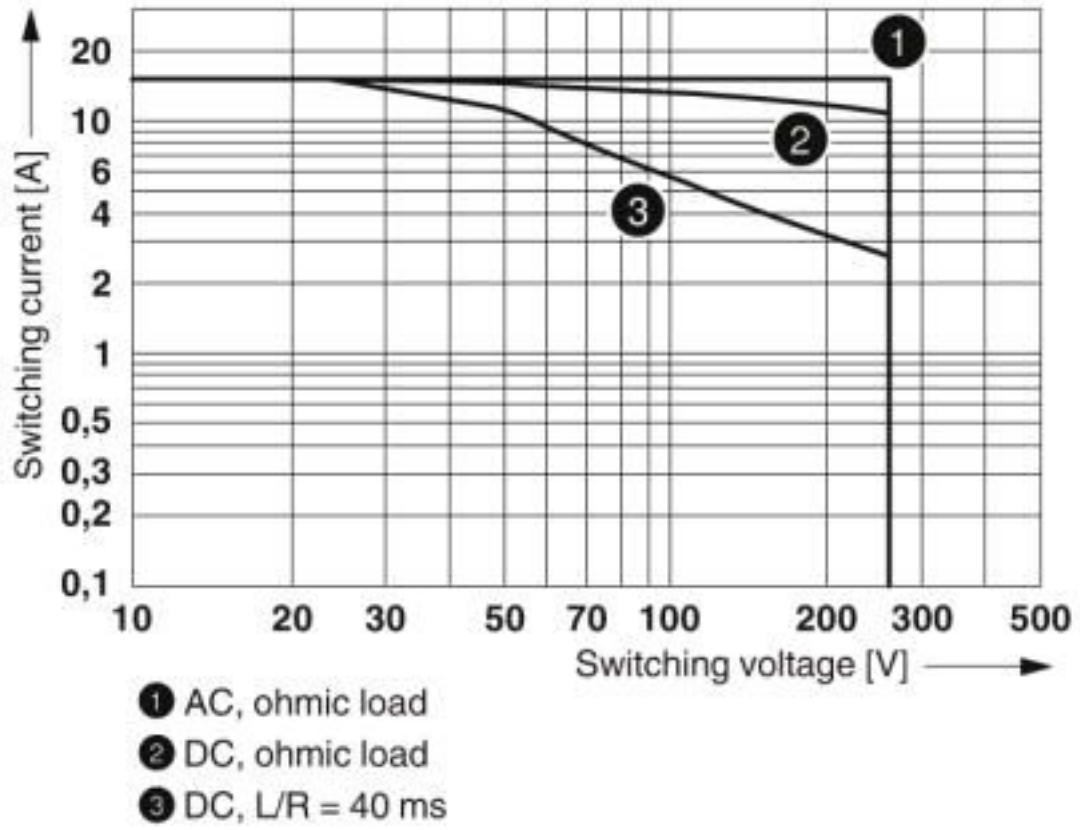
Diagram



Operating voltage range

# Single relay - REL-PR1-110DC/1/MB - 2908044

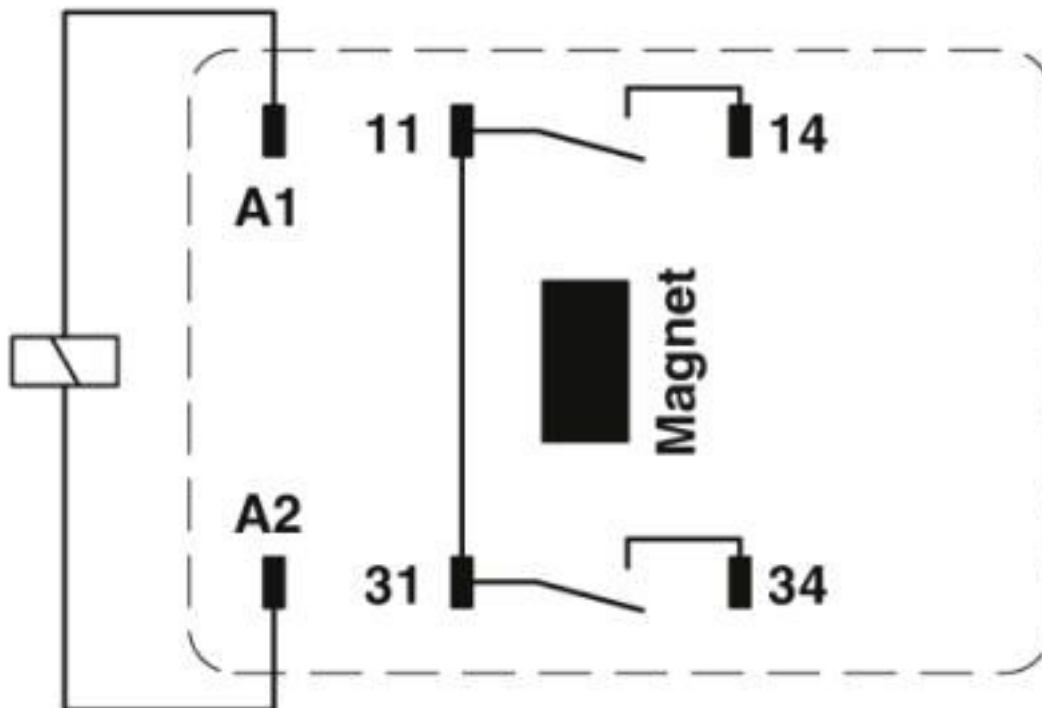
Diagram



Interrupting rating

# Single relay - REL-PR1-110DC/1/MB - 2908044

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

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## 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		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	70084446
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UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 172140
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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	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-PR1-110DC/1/MB - 2908044

### 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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