

## 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 STK
GTIN	 4 055626 266473
GTIN	4055626266473
Weight per Piece (excluding packing)	80.000 g
Custom tariff number	85364190
Country of origin	Poland

### Technical data

#### Dimensions

Width	38.6 mm
Height	45.5 mm
Depth	36.1 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 $U_N$	see diagram
Typical input current at $U_N$	70 mA

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## Technical data

### Coil side

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
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	440 V AC
	350 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)
	768 W (at 48 V DC)
	930 W (at 60 V DC)
	1650 W (at 110 V DC)
	2640 W (at 220 V DC)
	4000 VA (for 250 V AC)
Switching capacity min.	120 mW
Switching capacity in acc. with DIN VDE 0660/IEC 60947	1 A (at 220 V, DC13)
	1.5 A (at 240 V, AC15)

### General

Test voltage relay winding/relay contact	2.5 kV
Operating mode	100% operating factor
Degree of protection	RT I
Mechanical service life	Approx. $2 \times 10^7$ cycles
Mounting position	any

### Standards and Regulations

Standards/regulations	IEC 60664
	IEC 61810
Rated surge voltage	4 kV
Degree of pollution	3
Overvoltage category	III

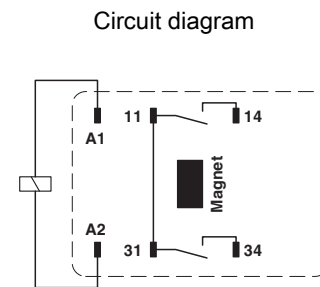
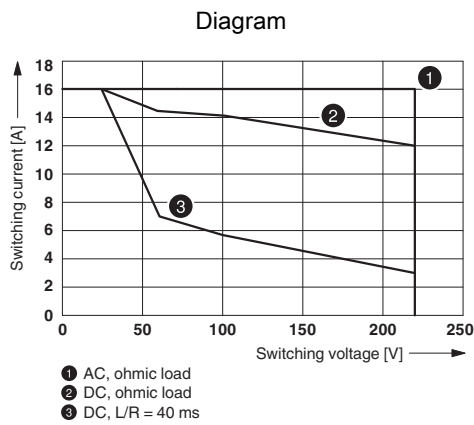
# Single relay - REL-PR1-24DC/1/MB - 2908040

## Technical data

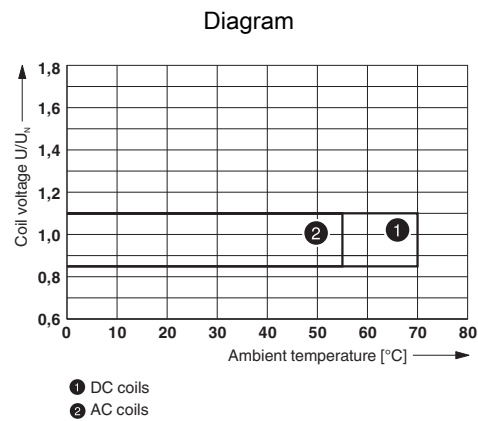
### Environmental Product Compliance

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

## Drawings



### Interrupting rating



### Operating voltage range

## Classifications

eCl@ss

eCl@ss 5.0	27371601
eCl@ss 5.1	27371601

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## Classifications

### eCl@ss

eCl@ss 6.0	27371601
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

### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39122334

## Approvals

### Approvals

#### Approvals

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

#### Ex Approvals


### Approval details


EAC		RU C- DE.A*30.B.01082
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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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### Approvals

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CSA		<a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a>	70084446
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cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm</a>	
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### Accessories

#### Additional products

##### Relay socket - 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

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##### Relay socket - 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