

## Single relay - REL-PR1-230AC/1/MB - 2908047

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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: 230 V AC

The figure shows version REL-PR1-24DC/1/MB

**RoHS**

### Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	80.000 g
Custom tariff number	85364900
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 $U_N$	230 V AC
Input voltage range in reference to $U_N$	see diagram
Mains frequency	50 Hz
	60 Hz
Typical input current at $U_N$	12 mA

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## Technical data

### Coil side

Typical response time	5 ms ... 25 ms (depending on phase relation)
Typical release time range	5 ms ... 18 ms (depending on phase relation)

### 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
Degree of pollution	3
Overvoltage category	III
Designation	Standards/regulations
Standards/regulations	IEC 61810
Mounting position	any

### Standards and Regulations

Rated surge voltage	4 kV
Degree of pollution	3
Overvoltage category	III

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### Technical data

#### Standards and Regulations

Designation	Standards/regulations
Standards/regulations	IEC 61810

### Classifications

#### eCl@ss

eCl@ss 4.0	27371104
eCl@ss 4.1	27371104
eCl@ss 5.0	27371601
eCl@ss 5.1	27371601
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

#### UNSPSC

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

### Approvals

#### Approvals

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#### Approvals

#### EAC

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#### Ex Approvals

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## Single relay - REL-PR1-230AC/1/MB - 2908047

### Approvals

#### Approval details

EAC 7500651.22.01.00244

### 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