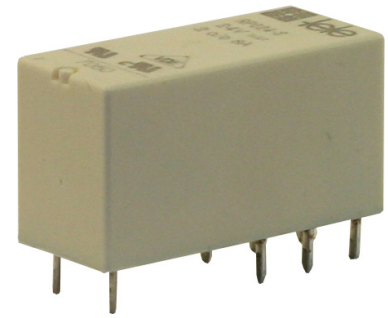




PCB power relays

2 change over contacts

Pluggable and solderable



Technical data

1. Mechanical Design

Self-extinguishing plastic housing, IP rating IP67

Mounting position: any

2. Coil

AC-Type:

Type	Rated voltage AC	Coil resistance Ω ($\pm 10\%$)
RP 512-2	12V	100
RP 524-2	24V	400
RP 615-2	115V	9600
RP 730-2	230V	38500

hv gold-plated contacts

Rated frequency: 50/60 Hz
 Rated consumption (50Hz): 0.75VA
 Must release voltage: $\geq 0.15 \times U_N$
 Tolerance: 0.8 to 1.2 $\times U_N$

DC-Type:

Type	Rated voltage DC	Coil resistance Ω ($\pm 10\%$)
RP 012-2	12V	360
RP 024-2	24V	1440
RP 024-hv	24V	1440

hv gold-plated contacts

Rated consumption: 0.5W
 Must release voltage: $\geq 0.1 \times U_N$
 Tolerance: 0.7 to 2.55 $\times U_N$

3. Contacts

Rated switching voltage: 250V AC
 Switching voltage: max. 440V AC
 min. 5V (AC/DC)
 Rated load: AC1: 8A/250V AC
 AC15: 3A / 120V
 1,5A / 240V (B300)
 AC3: 550W (single-phase motor)
 DC1: 8A/24V DC
 DC13: 0,22A / 120V
 0,1A / 250V (R300)

Rated switching current: 8A
 Min. switching current: 5mA
 2mA (gold-plated contacts)

Rated inrush current: 15A
 Breaking capacity: AC1: max. 2000VA
 DC1: max. 190W
 min. 0.3W
 min. 0.05W (gold-plated contacts)

Contact resistance: $\leq 100m\Omega$
 Switching frequency: max. 10/min at rated load AC1
 max. 1200/min, no load

Contact material: AgNi or AgNi/Au 5 μ m

4. General data

Operating time
 AC: 7ms
 DC: 7ms
 Release time
 AC: 3ms
 DC: 3ms
 Mechanical life: 30 $\times 10^6$ switching cycles
 Electrical life: 10 $\times 10^4$ switching cycles
 at 8A / 250V (AC1)
 Vibration: 10g/5g (NO/NC, 10 to 150Hz)
 Shock resistance: 10g

5. Insulation (according to EN 60664-1)

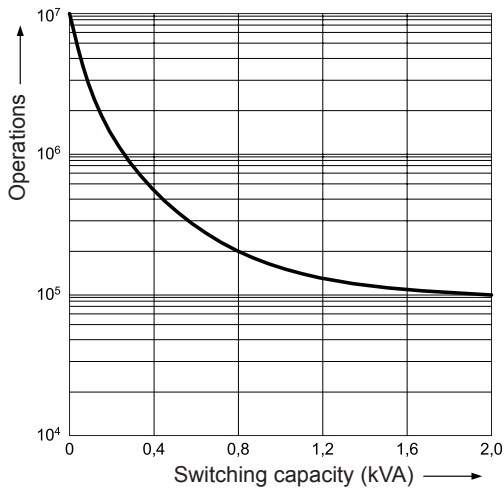
Insulation rated voltage: 400V AC
 Dielectric strength test voltage:
 Coil - contact: 5000V AC
 Contact - contact: 1000V AC
 Pole - pole: 2500V AC
 Insulation:
 Coil - contact: reinforced
 Pole - pole: basic
 Clearance contact - contact: micro-disconnection
 Rated surge voltage: 4000V (1,2 / 50 μ s)
 Overvoltage category: III
 Contact - coil distance:
 Clearance: ≥ 10 mm
 Creepage: ≥ 10 mm
 Insulation pollution degree: 3

6. Ambient conditions

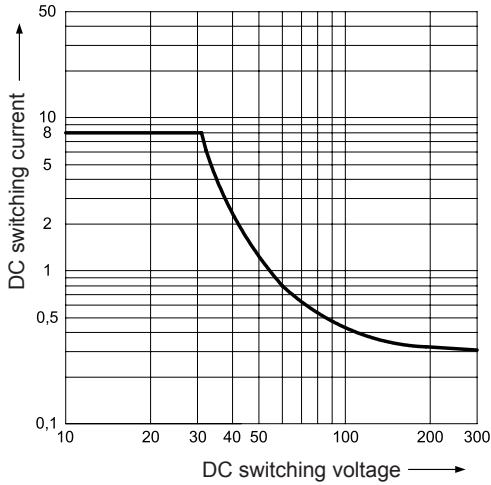
Ambient temperature:
 AC: -40 to +70°C
 DC: -40 to +85°C
 Storage temperature: -40 to +85°C
 Solder bath temperature /
 Soldering time: max. 270°C / max. 5s

Reduction factors

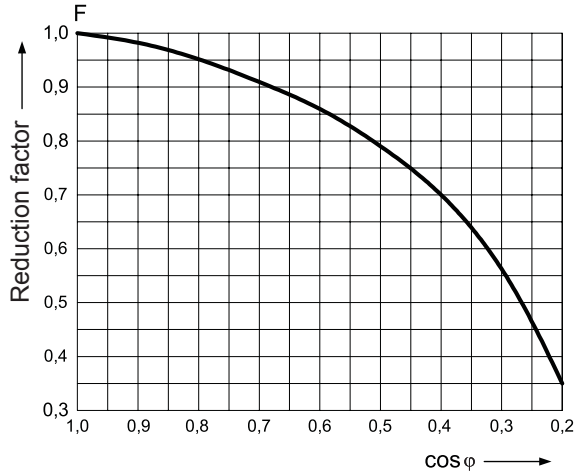
Reduction of electrical life depending on load



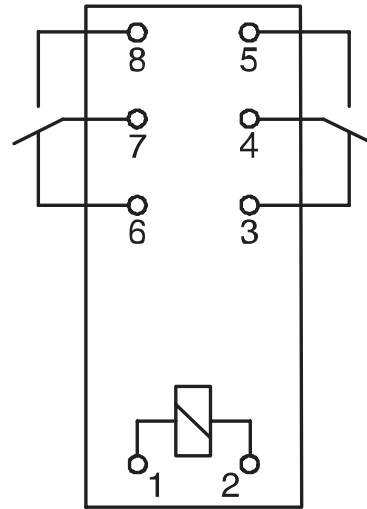
Reduction of switching capacity depending on switching voltage



Reduction of electrical life depending on switching voltage



Connections



Dimensions

