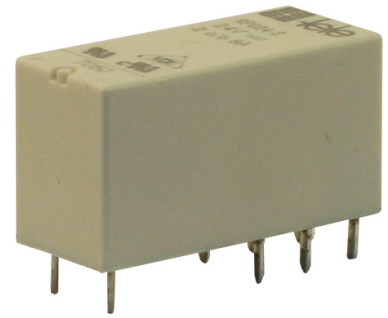




PCB power relays

1 change over contact

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 524-1	24V	400
RP 730-1	230V	38500

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 024-1	24V	1440

Rated consumption: 0.48W
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
Rated load: AC1: 16A / 250V AC
AC15: 3A / 120V
1,5A / 240V (B300)
AC3: 750W (single-phase motor)
DC1: 16A / 24V DC
DC13: 0,22A / 120V
0,1A / 250V (R300)
Rated switching current: 16A
Min. switching current: 5mA
Breaking capacity: AC1: max. 4000VA
min. 0.3W
Contact resistance: $\leq 100m\Omega$
Switching frequency: max. 10/min at rated load AC1
max. 1200/min no load
Contact material: AgNi

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: 7 $\times 10^4$ switching cycles at
16A / 250V AC (AC1)
Reduction factors for other loads
see diagrams page 2

Vibration: 10g (10 to 150Hz)
Shock resistance: 30g

5. Insulation (according to EN 60664-1)

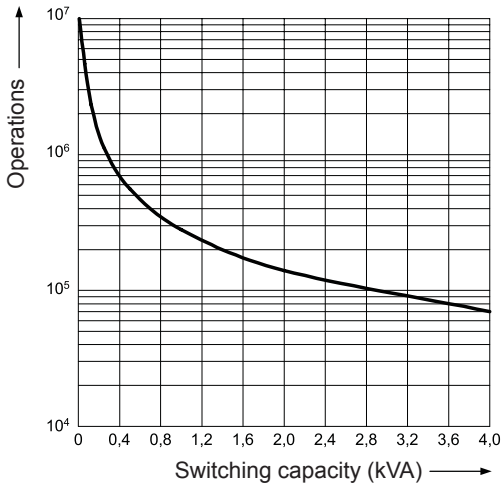
Insulation rated voltage: 400V AC
Dielectric strength test voltage:
Coil - contact: 5000V AC
Contact - contact: 1000V AC
Pole - pole: 2000V AC
Insulation:
Coil - contact: reinforced
Pole - pole: basic
Clearance contact - contact: micro-disconnection
Rated surge voltage: 4000V (1,2 / 50 μ s)
Overvoltage category: III
Contact - coil distance:
Clearance: ≥ 10 mm
Creepage: ≥ 10 mm
Insulation pollution degree: 3

6. Ambient conditions

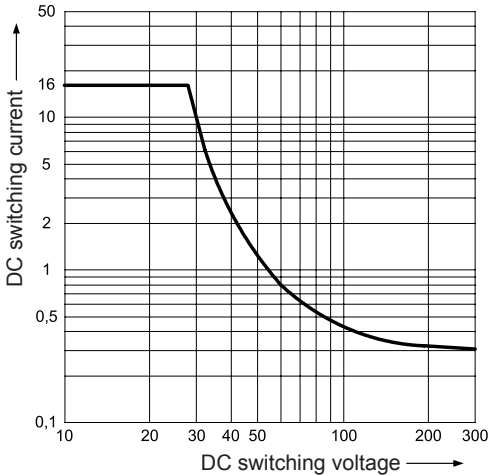
Ambient temperature:
AC: -40 to +70°C
DC: -40 to +85°C
Storage temperature: -40 to +85°C
Solder bath temperature /
Soldering time: max. 270°C / max. 5s

Reduction factors

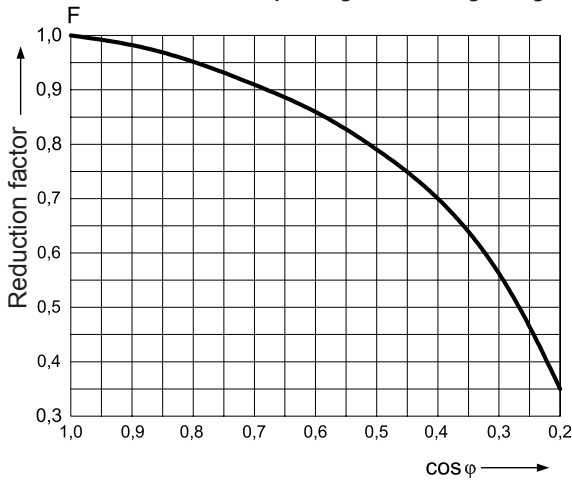
Reduction of electrical life depending on load



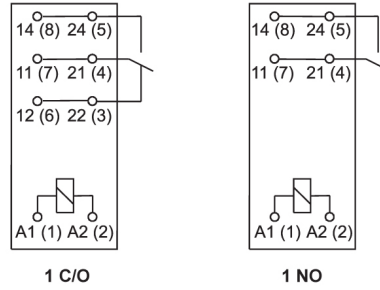
Reduction of switching capacity depending on switching voltage



Reduction of electrical life depending on switching voltage



Connections



Terminal (pin)	A1(1); A2(2)	22(3); 21(4); 24(5); 12(6); 11(7); 14(8)
[mm]	Ø 0,6	0,5 x 0,9
Drilling hole:		
• for relays Ø 1,3 + 0,1 mm		
• for sockets Ø 1,5 + 0,1 mm		

Dimensions

