PCB Relay RP II/1

1 pole 8 / 12 / 16 A

F0146-B

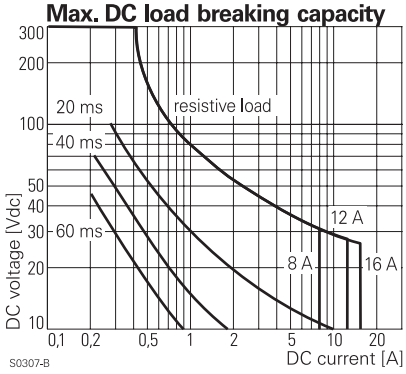
- 1 C/O or 1 N/O contact
- 4 kV / 8 mm coil-contact
- Pinning 3.5 or 5 mm (8 / 12 A) and 5 mm (16 A)
- PCB-sockets

Applications
Power supplies, domestic appliances, heating control, installation

8 A version:
12 A version:
16 A version:
Technical data of approved types on request

Contact data			
Configuration	1 C/O contact or 1 N/O contact		
Type of contact	single contact		
Rated current	8 A	12 A	16 A
Rated voltage / max.breaking voltage AC	250 Vac / 440 Vac		
Maximum breaking capacity AC	2000 VA	3000 VA	4000 VA
Make current	16 A	20 A	25 A
Contact material	AgNi 0.15	AgCdO	AgCdO

Max. DC load breaking capacity

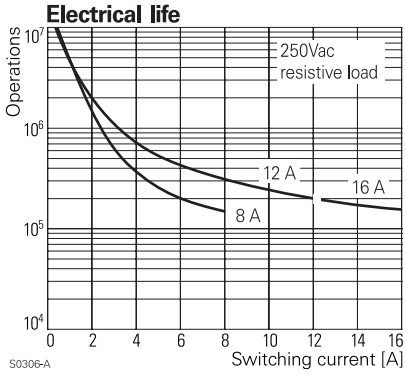


S0307-B

Contact life

Type	Load	Operations	Standard
RP410	12 A, 250 Vac, cosφ=1, 1200/h, 40% duty cycle	$1.1x10^5$	AC 1
RP410	9.1 A, 220 Vac, cosφ=1, 360/h, 15% duty cycle	$2x10^5$	AC 1
RP418	3.4 A ON, 0.42 A OFF, 220 Vac, cosφ=0.6	$>1.1x10^6$	
RP411	8 A, 250 Vac, cosφ=1, 50% duty cycle	10^5	AC 1
RP412	8 A, 250 Vac, cosφ=1, 50% duty cycle	10^5	AC 1
RP330	18.2 A, 250 Vac, cosφ=1, 600/h, 15% duty cycle	$1.1x10^5$	AC 1
RP330	96 A ON, 16 A OFF, 250 Vac, cosφ=0.6, 450/h	$> 3x10^4$	VDE 0630

Electrical life



S0306-A

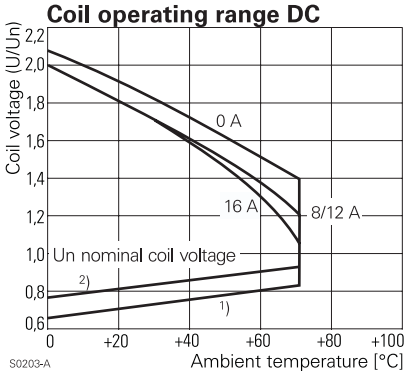
Coil data			
Nominal voltage	5...110 Vdc		
Nominal coil power	500 mW		
Operate category	2 / b		

Coil versions, DC-coil

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
005	5	3.5	0.5	9.0	54±10%	92.6
006	6	4.2	0.6	10.8	68±10%	88.2
012	12	8.4	1.2	21.6	270±10%	44.4
024	24	16.8	2.4	43.2	1100±15%	21.8
048	48	33.6	4.8	86.4	4400±15%	10.9
060	60	42.0	6.0	108.0	6540±15%	9.2
110	110	77.0	11.0	198.0	23100±15%	4.8

All figures are given for coil without preenergization, at ambient temperature +20°C
Other coil voltages on request

Coil operating range DC



S0203-A

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PCB Relay RP II/1

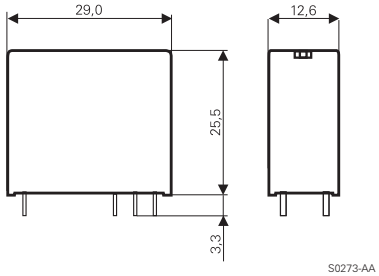
1 pole 8 / 12 / 16 A

Insulation	
Dielectric strength coil-contacts	4000 V_{rms}
open contact circuit	1000 V_{rms}
Clearance / creepage	8 / 8 mm
Insulation to VDE 0110b (2/79)	
Insulation category / reference voltage	C / 250

Other data	
Ambient temperature	-40...+70 °C
Mechanical life	30x10^6 operations
Max. switching rate at rated- / minimum load	10 min^{-1} / 1200 min^{-1}
Operate- / release time	typ. 8 / 2 ms
Bounce time N/O contact/N/C contact	typ. 2 / 4 ms
Vibration resistance N/O contact/N/C contact	>10 / 2 g, 30...300 Hz
Shock resistance (destruction)	100 g
Protection category	IP40 / IP67
Relay weight	18 g
Packaging unit	20 / 500 pcs.
Accessories	see accessories RP

Dimensions

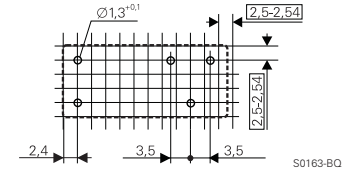
Dimensions in mm



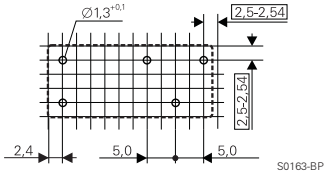
View on solder pins
Dimensions in mm

PCB layout / terminal assigment

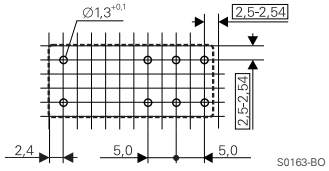
8 / 12 A, pinning 3.5 mm



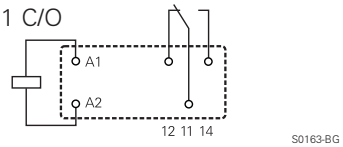
8 / 12 A, pinning 5 mm



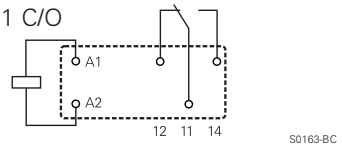
16 A, pinning 5 mm



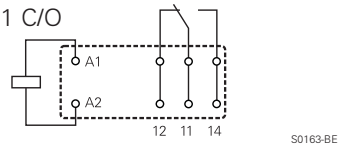
1 C/O



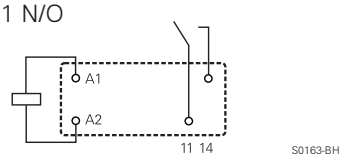
1 C/O



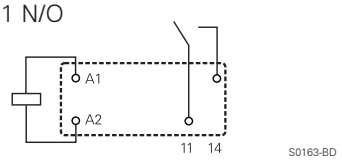
1 C/O



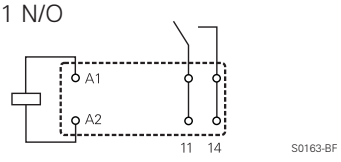
1 N/O



1 N/O



1 N/O



Ordering key

R	P						

Type

Version

3	**16 A, flux-tight**	**7**	**16 A, washable**
4	**8/12 A, flux-tight**	**8**	8/12 A, washable

Contacts

1	1 C/O contact	**3**	1 N/O contact

Contact material

0	**AgCdO, 16 A or 12 A, pinning 5 mm**	**2**	**AgNi 0.15, 8 A, pinning 3.5 mm**
1	AgNi 0.15, 8 A, pinning 5 mm	**8**	**AgCdO, 12 A, pinning 3.5 mm**

Coil

Coil code: please refer to coil versions table

Preferred types in bold print

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