

RC Power Relay



RC

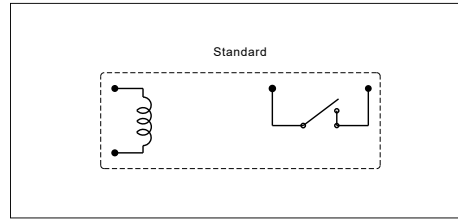
1 Form A, 3 A, standard type



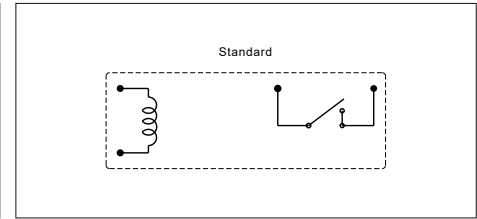
RC

1 Form A, 5 A, standard type

- 1 Form A
- Rated current: 3 to 5 A
- Small power relay
- 200 mW sensitive coil
- Safety approval: CQC, cULus, TUV, VDE
- Sealed high spec. version
- 7 mm ultra-thin width
- Meets IEC 60079-15 Anti-explosion Standard



Technical parameters



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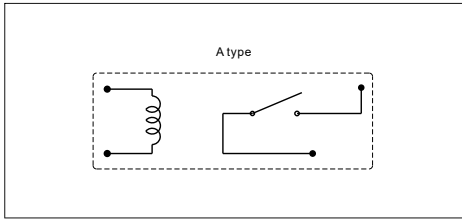
Coil data		Standard		Standard	
Coil input voltage		5/9/12/24 V DC		5/9/12/24 V DC	
Coil power		200 mW		200 mW	
Response voltage		< 75% (Room temp.)		< 75% (Room temp.)	
Drop out voltage		> 5% (Room temp.)		> 5% (Room temp.)	
Operation time / Release time		Less than 10 ms / less than 10 ms		Less than 10 ms / less than 10 ms	
Contact data		Standard		Standard	
Contact numbers		1 Form A		1 Form A	
Contact material		Ag alloy		Ag alloy	
Max. switching voltage		30 V DC, 250 V AC		30 V DC, 250 V AC	
Max. switching power		750 VA		1,250 VA	
Contact ratings		3 A 250 V AC, 3 A 30 V DC, 1/8HP 240 V AC		5 A 250 V AC, 5 A 30 V DC, 1/8HP 240 V AC	
Contact resistance		Max. 100 mΩ (1 A / 6 V DC)		Max. 100 mΩ (1 A / 6 V DC)	
Mechanical service life		5×10 ⁶ times		5×10 ⁶ times	
Electrical Service life	AC1	1×10 ⁵ times		1×10 ⁵ times	
General data		Standard		Standard	
Rated withstand impulse voltage	Coil / Contact Between contacts	4 kV AC / 1 min 750 V AC / 1 min		4 kV AC / 1 min 750 V AC / 1 min	
Surge voltage		10 kV AC (1.2/50 μs)		10 kV AC (1.2/50 μs)	
Insulation Resistance		1,000 MΩ (500 V DC)		1,000 MΩ (500 V DC)	
Vibration		Malfunction 10~55 Hz (Amplitude 1.5 mm) Endurance 10~55 Hz (Amplitude 1.5 mm)		Malfunction 10~55 Hz (Amplitude 1.5 mm) Endurance 10~55 Hz (Amplitude 1.5 mm)	
Shock		Malfunction 98 m/s ² Endurance 980 m/s ²		Malfunction 98 m/s ² Endurance 980 m/s ²	
Ambient temperature (Operation)		-40~85 °C (No condensation)		-40~85 °C (No condensation)	
Operating humidity		20~85%		20~85%	
Dimension L×W×H (mm)		20.4×7.0×15.1		20.4×7.0×15.1	
Enclosure type		Flux-proof, sealed		Flux-proof, sealed	
Mounting		PCB		PCB	
Weight (g)		3		3	
Compliance certification number		cULus:E345228, TUV:R50220640, CQC:CQC12002067898, VDE:40034781		cULus:E345228, TUV:R50220640, CQC:CQC12002067898, VDE:40034781	

Type designation

Model designation	Number of poles	Coil voltage	Coil power	Contact configuration	Contact rating	Contact material	Insulation class	Enclosure type	PCB Board layout	Special request
RC	-1	12	D	M	1	*	F	H	-A	-XXX
RC	1: 1 pole	05: 5 V 09: 9 V 12: 12 V 24: 24 V	D: 200 mW	M: Form A	Blank: 3 A 1: 5 A	Blank: AgSnO ₂ 4: AgNi	Blank: class A F: class F	Blank: Flux-proof H: Sealed	Blank: Standard A: A type	335: Stands for product in accordance with IEC 60335-1 (GWT)



RC
1 Form A, 5 A, A type



Technical parameters

5/9/12/24 V DC
200 mW
< 75% (Room temp.)
> 5% (Room temp.)
Less than 10 ms / less than 10 ms

1 Form A
Ag alloy
30 V DC, 250 V AC
1,250 VA
5 A 250 V AC, 5 A 30 V DC, 3 A 250 V AC, 3 A 30 V DC,
1/8HP 240 V AC
Max. 100 mΩ (1 A / 6 V DC)
5×10⁶ times
1×10⁵ times

4 kV AC / 1 min
750 V AC / 1 min
10 kV AC (1.2/50 μs)
1,000 MΩ (500 V DC)
Malfunction 10~55 Hz (Amplitude 1.5 mm)
Endurance 10~55 Hz (Amplitude 1.5 mm)
Malfunction 98 m/s², Endurance 980 m/s²
-40~85 °C (No condensation)
20~85%
20.4×7.0×15.1
Flux-proof, sealed
PCB
3
cULus:E345228, TUV:R50220640, CQC:CQC12002067898,
VDE:40034781

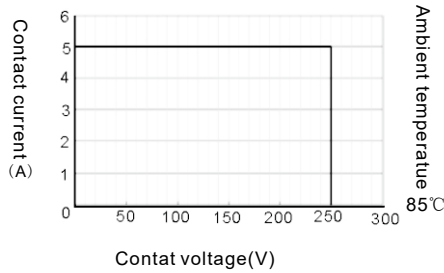
Tolerance	
Outline dimension	
<1mm	±0.2mm
1~5mm	±0.3mm
>5mm	±0.4mm
PCB board layout	
Pitch-row	±0.1mm
Aperture	+0.1mm

SSA approval rating						
cULus			TUV			
5A/250VAC (Resistive)	85 °C	100,000ops	5A/250VAC	85 °C	100,000ops	
3A/250VAC (Resistive)	85 °C	100,000ops	3A/250VAC	85 °C	100,000ops	
1/8HP/240VAC (HP)	85 °C	30,000ops	CQC			
5A/30VDC (Resistive)	85 °C	100,000ops	5A/250VAC	85 °C	100,000ops	
only for AgNi			3A/250VAC	85 °C	100,000ops	
3A/30VDC	105 °C	100,000ops	VDE			
5A/250VAC	105 °C	100,000ops	5A/250VAC	85 °C	100,000ops	
5A/30VDC	105 °C	100,000ops	3A/250VAC	85 °C	100,000ops	
1/4HP/240VAC	105 °C	50,000ops				

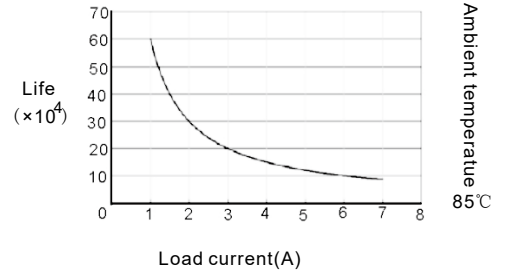
Coil rating					
Rated voltage (VDC)	Rated current (mA)	Coil resistance (Ω±10%)	Operating power (mW)	Operating voltage (VDC)	Release voltage (VDC)
5	40	125	200	≤3.75	≥0.25
9	22.2	405	200	≤6.75	≥0.45
12	16.7	720	200	≤9.00	≥0.60
24	8.3	2,880	200	≤18.00	≥1.20

MAX. allowable coil voltage: 130% of rated coil voltage (Room temperature)

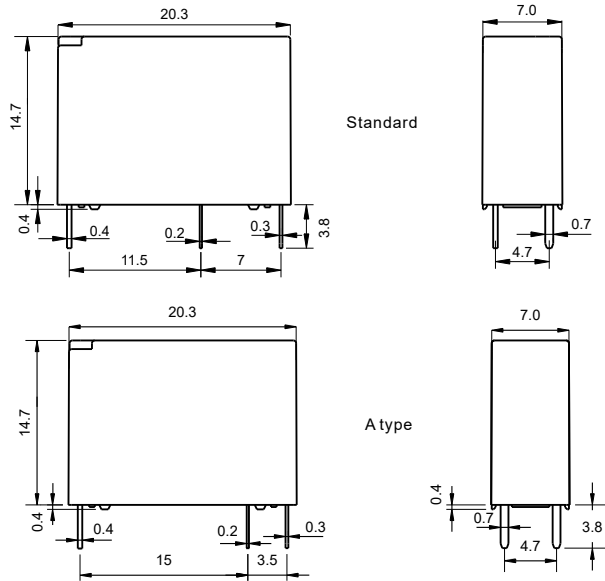
MAX.contact capacity



Life curve



Outline dimensions



PCB board layout (Bottom view)

