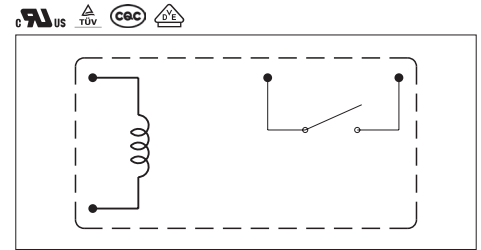


RJE Power Relay

- 1 Form A/C
- Rated current: 10 A
- high sensitivity type
- Dielectric strength between coil & contact: 4,000 V AC
- Class F Coil
- Meets IEC 60079-15 Anti-explosion Standard



RJE
1 Form A, 10 A



Technical parameters

Coil data		
Coil input voltage		3/5/6/9/12/24 V DC
Coil power		D Type: 400 mW, L Type: 200 mW
Response voltage		< 75% (Room temp.)
Drop out voltage		> 5% (Room temp.)
Operation time / Release time		Less than 8 ms / less than 5 ms
Contact data		
Contact numbers		1 Form A
Contact material		Ag alloy
Max. switching voltage		30 V DC, 277 V AC
Max. switching power		2,770 VA
Contact ratings		10 A 125 V AC, 5 A 277 V AC, 10 A 30 V DC
Contact resistance		Max. 100 mΩ (1 A / 6 V DC)
Mechanical service life		1×10 ⁷ times
Electrical Service life	AC1	1×10 ⁵ times
General data		
Rated withstand impulse voltage	Coil / Contact Between contacts	4 kV AC / 1 min 1 kV AC / 1 min
Surge voltage		10 kV AC (1.2/50 μs)
Insulation Resistance		1,000 MΩ (500 V DC)
Vibration		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
Ambient temperature (Operation)		-40~105 °C (No condensation)
Operating humidity		20~85%
Dimension L×W×H (mm)		19.8×9.9×15.2
Enclosure type		Flux-proof, sealed
Mounting		PCB
Weight (g)		7
Compliance certification number		cULus:E345228, TUV:R50246903, CQC:CQC12002084196, VDE:40045973

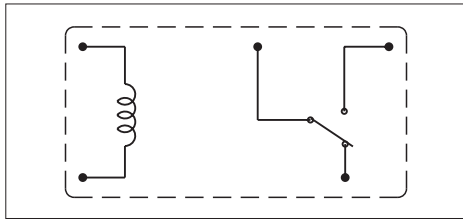
Type designation

Model designation	Number of poles	Coil voltage	Coil power	Contact configuration	Contact material	Insulation class	Enclosure type	Special request
RJE	-1	12	D	M	*	F	-S	XXX
RJE	1: 1 pole	03: 3 V 05: 5 V 06: 6 V 09: 9 V 12: 12 V 24: 24 V	D: 400 mW L: 200 mW	M: 1 Form A Blank: 1 Form C	Blank: AgSnO ₂ Other numbers: other materials	Blank: class A F: class F	Blank: flux-proof S: sealed	335: Stands for product in accordance with IEC 60335-1 (GWT)



RJE

1 Form C, 10 A



Technical parameters

3/5/6/9/12/24 V DC

D Type: 400 mW, L Type: 200 mW

< 75% (Room temp.)

> 5% (Room temp.)

Less than 8 ms / less than 5 ms

1 Form C

Ag alloy

30 V DC, 277 V AC

N.O. 1,385 VA, N.C. 831 VA

N.O. 5 A 277 V AC, N.C. 3 A 277 V AC

Max. 100 mQ (1 A / 6 V DC)

1×10⁷ times

1×10⁵ times

4 kV AC / 1 min

1 kV 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

-40~105 °C (No condensation)

20~85%

19.8×9.9×15.2

Flux-proof, sealed

PCB

7

cULus:E345228, TUV:R50246903, CQC:CQC12002084196,

VDE:40045973

SSA approval rating

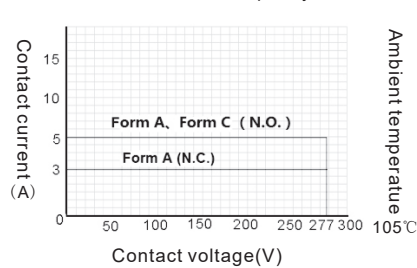
cULus		(1formC) N.O.5A/277VAC		105 °C	100,000ops
(1formA)	5A/277VAC (Resistive)	105 °C	100,000ops	N.C.3A/277VAC	
	5A/30VDC (Resistive)	105 °C	100,000ops	105 °C	100,000ops
	10A/125VAC (Resistive)	105 °C	100,000ops	CQC	
	1/6HP/277VAC (HP)	105 °C	30,000ops	(1formA) 5A/277VAC	105 °C 100,000ops
	N.O.5A/277VAC (Resistive)	105 °C	100,000ops	10A/125VAC	105 °C 100,000ops
(1formC)	N.C.3A/277VAC (Resistive)	105 °C	100,000ops	(1formC) N.O.5A/277VAC	105 °C 100,000ops
	N.O.5A/30VDC (Resistive)	105 °C	100,000ops	N.C.3A/277VAC	105 °C 100,000ops
	N.O.5A/30VDC	105 °C	100,000ops	VDE	
				(1formA) 5A/277VAC cosφ=0.4	85 °C 100,000ops
				10A/277VAC	85 °C 20,000ops
TUV				5A/30VDC	105 °C 50,000ops
(1formA)	5A/277VAC	105 °C	100,000ops	(1formC) 5A/3A/277VAC cosφ=0.4	85 °C 50,000ops
	10A/277VAC	105 °C	100,000ops		

Coil rating

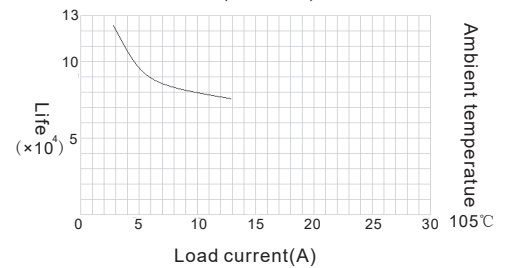
Rated voltage (VDC)	Rated current (mA)		Coil resistance (Ω±10%)		Operating power (mW)		Operating voltage (VDC)	Release voltage (VDC)
	L type	D type	L type	D type	L type	D type		
3	66.7	133.3	45	22.5	200	400	≤2.25	≥0.15
5	40.0	79.4	125	63	200	400	≤3.75	≥0.25
6	33.3	66.7	180	90	200	400	≤4.50	≥0.30
9	22.2	44.6	405	202	200	400	≤6.75	≥0.45
12	16.7	33.3	720	360	200	400	≤9.00	≥0.60
24	8.3	16.7	2,880	1,440	200	400	≤18.00	≥1.20

MAX. allowable coil voltage: 160% of rated coil voltage (Room temperature)

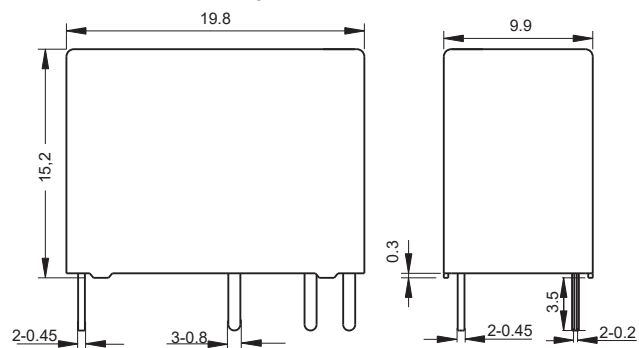
MAX.contact capacity



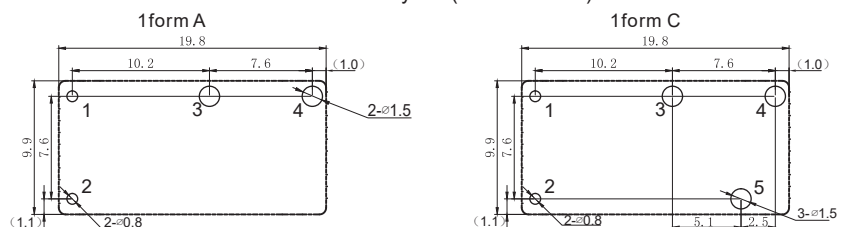
Life curve(1 Form A)



Outline dimensions



PCB board layout (Bottom view)



Tolerance

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