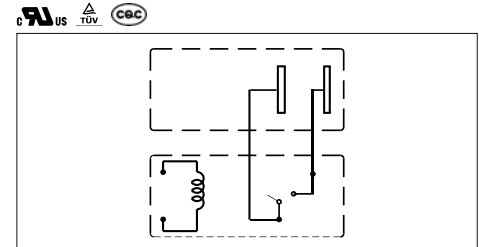


RMIF Power Relay

- 1 Form A
- Rated current: 16 to 20 A
- High capacity, high endurance
- Dielectric strength between coil & contact: 5,000 V AC
- Class F coil
- Flux-proof type



RMIF
1 Form A, 20 A, #187 Faston terminal



Technical parameters

Coil data		
Coil input voltage		5/9/12/18/24 V DC
Coil power		D Type: 720 mW, L Type: 540 mW
Response voltage		< 75% (Room temp.)
Drop out voltage		> 5% (Room temp.)
Operation time / Release time		Less than 20 ms / less than 10 ms
Contact data		
Contact numbers		1 Form A
Contact material		Ag alloy
Max. switching voltage		277 V AC
Max. switching power		4,709 VA
Contact ratings		20 A 125 V AC, 17 A 277 V AC, 16 A 277 V AC
Contact resistance		Max. 100 mΩ (1 A / 6 V DC)
Mechanical service life		1×10 ⁶ times
Electrical Service life	AC1	1×10 ⁵ times
General data		
Rated withstand impulse voltage	Coil / Contact	5 kV AC / 1 min
	Between contacts	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)
		Malfunction 98 m/s ² , Endurance 980 m/s ²
Shock		-40~105 °C (No condensation)
Ambient temperature (Operation)		20~85%
Operating humidity		29.0×12.6×24.4
Dimension L×W×H (mm)		Flux-proof
Enclosure type		PCB & faston terminal
Mounting		16
Weight (g)		cULus:E345228, TUV:R50227054, CQC:CQC12002076605
Compliance certification number		

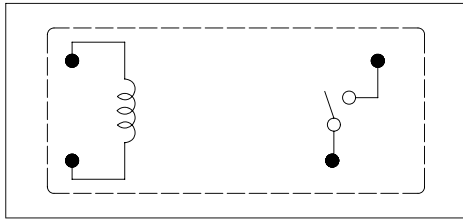
Type designation

Model designation	Number of poles	Coil voltage	Coil power	Contact configuration	Contact material	Insulation class	PCB terminal pin	Enclosure type	Special request
RMIF	-1	12	D	M	*	F	-A	-S	XXX
RMIF	1: 1 pole	05: 5 V 09: 9 V 12: 12 V 18: 18 V 24: 24 V	D: 720 mW L: 540 mW	M: 1 Form A	Blank: AgSnO ₂ Other numbers: other materials	Blank: class A F: class F	Blank: Standard type A: Without Movable Contact Terminal and Stationary Contact Terminal B: Stationary Contact Terminal Only C: Movable Contact Terminal Only D: With Dummy Movable Contact Terminal and Stationary Contact Terminal P: PCB Terminal Only	Blank: flux-proof S: sealed	335: Stands for product in accordance with IEC 60335-1(GWT)



RMIF

1 Form A, 20 A, Without faston terminal



Technical parameters

5/9/12/18/24 V DC

D Type: 720 mW, L Type: 540 mW

< 75% (Room temp.)

> 5% (Room temp.)

Less than 20 ms / less than 10 ms

1 Form A

Ag alloy

277 V AC

4,709 VA

20 A 125 V AC, 17 A 277 V AC, 16 A 277 V AC

Max. 100 mΩ (1 A / 6 V DC)

1×10⁶ times

1×10⁵ times

5 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%

29.0×12.6×24.4

Flux-proof

PCB

15

cULus:E345228, TUV:R50227054

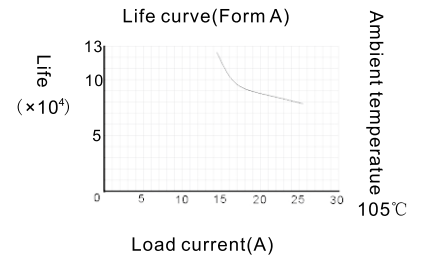
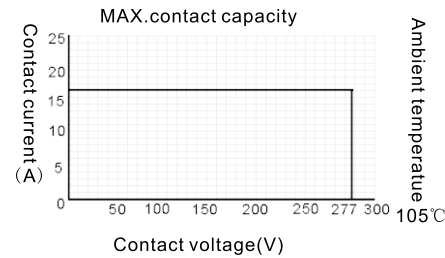
SSA approval rating

cULus				CQC			
16A/277VAC (Resistive)	105 °C	100,000ops		16A/277VAC	105 °C	100,000ops	
17A/277VAC (Resistive)	105 °C	100,000ops		17A/277VAC	105 °C	100,000ops	
20A/125VAC (Resistive)	105 °C	100,000ops		20A/125VAC	105 °C	60,000ops	
TUV							
16A/250VAC	105 °C	100,000ops					
17A/250VAC	105 °C	100,000ops					
20A/125VAC	105 °C	60,000ops					

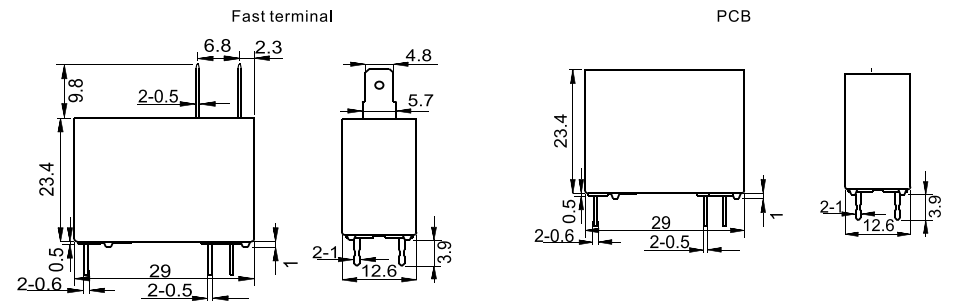
Coil rating

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		
5	108	138.9	46.3	36	540	720	≤3.75	≥0.25
9	60	78.3	150	115	540	720	≤6.75	≥0.45
12	44.9	60	267	200	540	720	≤9.00	≥0.60
18	30	40	600	450	540	720	≤13.50	≥0.90
24	22.5	29.3	1,067	820	540	720	≤18.00	≥1.20

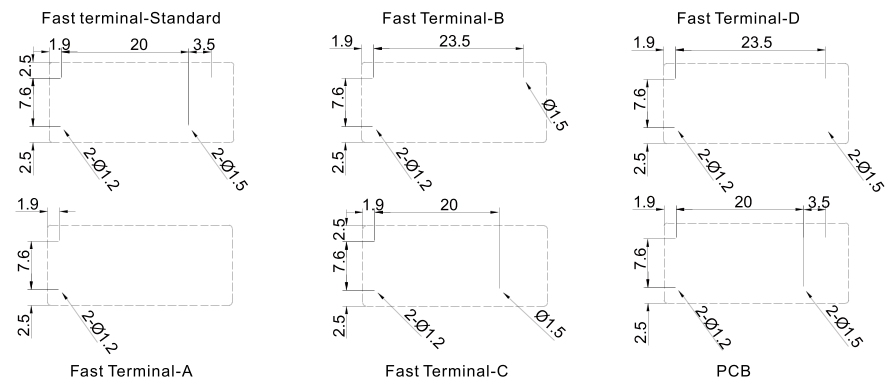
MAX. allowable coil voltage: 130% of rated coil voltage (Room temperature)



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