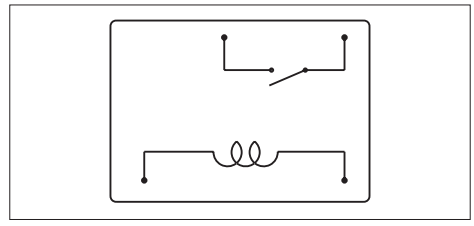
RE Power Relay

- 1 Form A
- Rated current: 10 to 16 A
- Low shape
- Low power consumption
- 200 mW high sensitive coil

RE

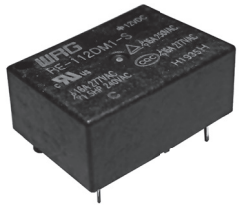
1 Form A, 10 A



Technical parameters		
Coil data		
Coil input voltage		5/9/12/18/24 V DC
Coil power		200 mW
Response voltage		< 75% (Room temp.)
Drop out voltage		> 5% (Room temp.)
Operation time / Release time		Less than 15 ms / less than 5 ms
Contact data		
Contact numbers		1 Form A
Contact material		Ag alloy
Max. switching voltage		250 V AC
Max. swiching power		2,770 VA
Contact ratings		10 A 250 V AC, 10 A 30 V DC, 1/3HP 240 V AC
Contact resistence		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	2 kV AC / 1 min
	Between contacts	1 kV AC / 1 min
Surge voltage		5 kV AC (1.2/50 μs)
Insulation Resistance		1,000 MΩ (500 V DC)
Vibration		Malfunction 10~55 Hz (Amplitude1.5 mm) Endurance 10~55 Hz (Amplitude1.5 mm)
Shock		Malfunction 98 m/s^2, Endurance 980 m/s^2
Ambient temperature (Operation)		-40~105 ℃ (No condensation)
Operating humidity		20~85%
Dimension L×W×H (mm)		23.0×16.1×10.2
Enclosure type		Flux-proof, sealed
Mounting		PCB
Weight (g)		9
Compliance certification number		cULus:E345228, TUV:R50250866, CQC:CQC12002086474

Type designation

Model designation	Number of poles	Coil voltage	Coil power	Contact configuration	Contact rating	Insulation class	Enclosure type	Special request
RE	-1	12	D	M	1	F	-S	XXX
RE: A type, base with PCB terminal	1: 1 pole	05: 5 V 09: 9 V 12: 12 V 18: 18 V 24: 24 V	D: 200 mW	M: 1 Form A	Blank: 10 A 1: 15 A/16 A	Blank: class A F: class F	Blank: flux-proof S: sealed	335: Stands for product in accordance with IEC 60335-1 (GWT)



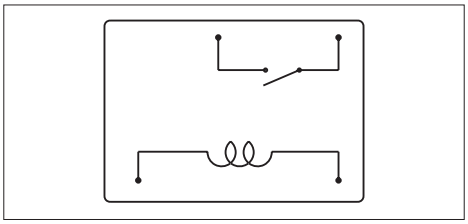
RE

1 Form A, 16 A

SSA approval rating						
cULus				TUV		
10A/250VAC (Resistive)	105 ℃	100,000ops		10A/250VAC	105 ℃	100,000ops
10A/30VDC (Resistive)	105 ℃	100,000ops		15A/250VAC	105 ℃	100,000ops
15A/250VAC (Resistive)	105 ℃	100,000ops		16A/250VAC	105 ℃	100,000ops
16A/120/250/277VAC	105 ℃	100,000ops	CQC			
1/3HP 240VAC (HP)	105 ℃	30,000ops		10A/250VAC	105 ℃	100,000ops
1/2HP 120VAC (HP)	105 ℃	30,000ops		15A/250VAC	105 ℃	100,000ops
1.5HP 240VAC (HP)	105 ℃	30,000ops		16A/250VAC	105 ℃	100,000ops
				16A/277VDC	105 ℃	100,000ops

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
18	11.1	1,620	200	≤13.50	≥0.90
24	8.3	2,880	200	≤18.00	≥1.20

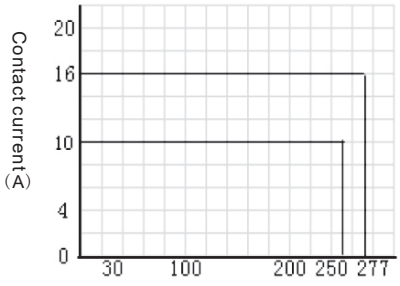
MAX. allowable coil voltage: 130% of rated coil voltage (Room temperature)



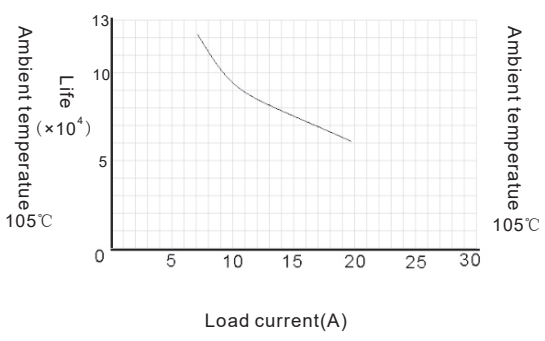
Technical parameters

	5/9/12/18/24 V DC
	200 mW
	< 75% (Room temp.)
	> 5% (Room temp.)
	Less than 15 ms / less than 5 ms
	1 Form A
	Ag alloy
	250 V AC
	4,432 VA
	15 A 250 V AC, 16 A 250 V AC, 1/3HP 240 V AC
	Max. 100 mΩ (1 A / 6 V DC)
	1×10^6 times
	1×10^5 times
	2 kV AC / 1 min
	1 kV AC / 1 min
	5 kV AC (1.2/50 μs)
	1,000 MΩ (500 V DC)
	Malfunction 10~55 Hz (Amplitude1.5 mm) Endurance 10~55 Hz (Amplitude1.5 mm)
	Malfunction 98 m/s², Endurance 980 m/s²
	-40~105 ℃ (No condensation)
	20~85%
	23.0×16.1×10.2
	Flux-proof, sealed
	PCB
	9
	cULus:E345228, TUV:R50250866, CQC:CQC12002086474

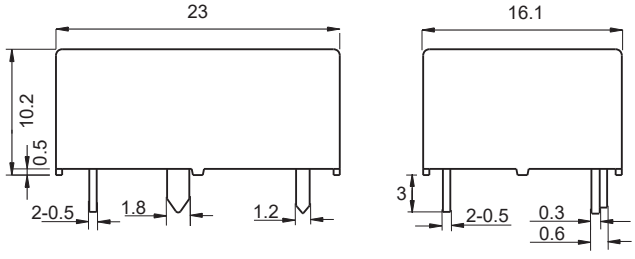
MAX.contact capacity



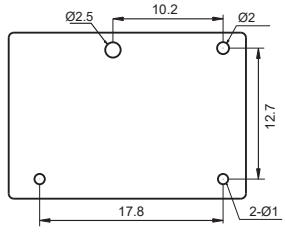
Life curve(10A)



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