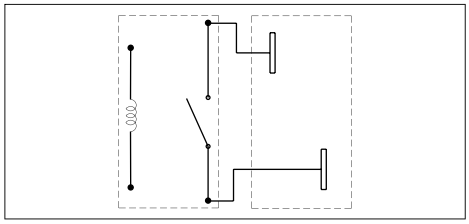
RF Power Relay

- 1 Form A
- Rated current: 20 to 32 A
- High capacity, high endurance
- Control switch has enough insulation distance
- Class F Coil
- Meets IEC 60079-15 Anti-explosion Standard
- Flux-proof type, sealed type

RF
1 Form A, 20 A, #250 faston terminal



Technical parameters

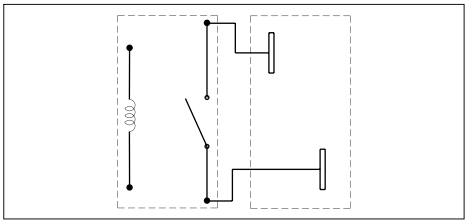
Coil data		
Coil input voltage		5/9/12/24 V DC
Coil power		900 mW
Response voltage		< 75% (Room temp.)
Drop out voltage		> 5% (Room temp.)
Operation time / Release time		Less than 20 ms / less than 10 ms
Contact data		
Contact numbers		1 Form A
Contact material		Ag alloy
Max. switching voltage		277 V AC
Max. swiching power		8,000 VA
Contact ratings		20 A 250 V AC, 2HP 240 V AC, 20 A 277 V AC, 1-1/2HP 277 V AC
Contact resistence		Max. 100 mΩ (1 A/ 6 V DC)
Mechanical service life		5×10^6 (min 2×10^6) times
Electrical Service life	AC1	1×10^5 times
General data		
Rated withstand impulse voltage	Coil / Contact	4.5 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)
Shock		Malfunction 98 m/s^2
Ambient temperature (Operation)		-40~105 ℃ (No condensation)
Operating humidity		20~85%
Dimension L×W×H (mm)		30.1×15.7×23.3
Enclosure type		Flux-proof
Mounting		PCB & faston terminal
Weight (g)		22
Compliance certification number		cULus:E345228, TUV:R50194013, CQC:CQC10002052738

Type designation

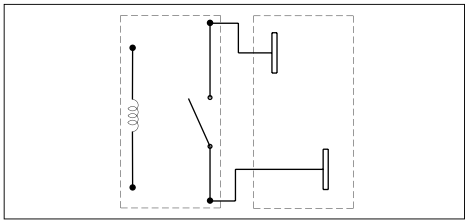
Model designation	Enclosure type	Number of poles	Coil voltage	Coil power	Contact configuration	Terminal	Contact material	Insulation class	Special request
RF	-SS	-1	12	D	M	F	*	-F	-XXX
RF	SS: Flux-proof	1: 1 pole	05: 5 V 09: 9 V 12: 12 V 24: 24 V	D: 0.9 W	M: 1 Form A	Blank: Without faston terminal F: With faston terminal	Blank: $AgSnO_2$	Blank: class A F: class F	Blank: PBT, 20 A A: PBT, 25 A B: PBT, 32 A 335: Stands for product in accordance with IEC 60335-1 (GWT),20 A 335 A: Stands for product in accordance with IEC 60335-1 (GWT),25 A 335 B: Stands for product in accordance with IEC 60335-1 (GWT),32 A

RF
1 Form A, 25 A, #250 faston terminal

RF
1 Form A, 32 A, #250 faston terminal



Technical parameters
5/9/12/24 V DC
900 mW
< 75% (Room temp.)
> 5% (Room temp.)
Less than 20 ms / less than 10 ms
1 Form A
Ag alloy
277 V AC
8,000 VA
25 A 250 V AC, 25 A 277 V AC, 2HP 240 V AC
Max. 100 mΩ (1 A/ 6 V DC)
5×10^6 (min 2×10^6) times
1×10^5 times
4.5 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)
Malfunction 98 m/s^2
-40~105 ℃ (No condensation)
20~85%
30.1×15.7×23.3
Flux-proof
PCB & faston terminal
22
cULus:E345228, TUV:R50194013, CQC:CQC10002052738, VDE:40032929

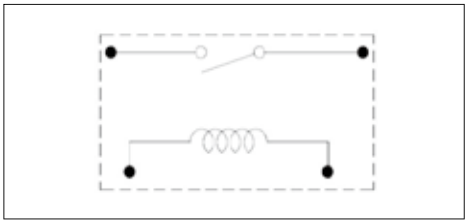


Technical parameters
5/9/12/24 V DC
900 mW
< 75% (Room temp.)
> 5% (Room temp.)
Less than 20 ms / less than 10 ms
1 Form A
Ag alloy
277 V AC
8,000 VA
32 A 250 V AC, 32 A 277 V AC, 2HP 240 V AC
Max. 100 mΩ (1 A/ 6 V DC)
5×10^6 (min 2×10^6) times
1×10^5 times
4.5 kV AC / 1 min
1 kV AC / 1 min
10 kV AC (1.2/50 μs)
1,000 MΩ (500 V DC)
Malfunction 10~55 Hz (Amplitude 1.5 mm)
Malfunction 98 m/s^2
-40~105 ℃ (No condensation)
20~85%
30.1×15.7×23.3
Flux-proof
PCB & faston terminal
22
cULus:E345228, TUV:R50194013, CQC:CQC10002052738

RF Power Relay

- 1 Form A
- Rated current: 20 to 32 A
- High capacity, high endurance
- Control switch has enough insulation distance
- Class F Coil
- Meets IEC 60079-15 Anti-explosion Standard
- Flux-proof type

RF
1 Form A, 25 A, P type



Technical parameters

Coil data		
Coil input voltage		5/9/12/24 V DC
Coil power		900 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. swiching power		8,000 VA
Contact ratings		25 A 250 V AC, 25 A 277 V AC, 2HP 250 V AC, 20 A 250 V AC, 20 A 277 V AC
Contact resistence		Max. 100 mΩ (1 A/ 6 V DC)
Mechanical service life		5×10^6 (min 2×10^6) times
Electrical Service life	AC1	1×10^5 times
General data		
Rated withstand impulse voltage	Coil / Contact	4.5 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)
Shock		Malfunction 98 m/s^2
Ambient temperature (Operation)		-40~105 ℃ (No condensation)
Operating humidity		20~85%
Dimension L×W×H (mm)		30.1×15.7×23.3
Enclosure type		Flux-proof
Mounting		PCB
Weight (g)		20
Compliance certification number		cULus:E345228, TUV:R50194013, CQC:CQC10002052738, VDE:40032929

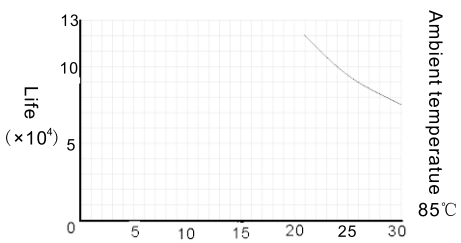
SSA approval rating						
cULus				TUV		
	2HP/240VAC (HP)	65 ℃	100,000ops		20A/250VAC	85 ℃	100,000ops
	20A/25A/250VAC (Resistive)	85 ℃	100,000ops		25A/250VAC	85 ℃	100,000ops
	20A/25A/277VAC (Resistive)	85 ℃	100,000ops		32A/250VAC	85 ℃	100,000ops
	20A/277VAC (Resistive)	105 ℃	100,000ops	CQC			
	1-1/2HP/277VAC (HP)	105 ℃	100,000ops		16A/250VAC	85 ℃	100,000ops
	20A/25A/277VAC	105 ℃	100,000ops		20A/250VAC	85 ℃	100,000ops
	#33A/277/250VAC	85 ℃	30,000ops		25A/250VAC	85 ℃	100,000ops
	#: 1.8mm gap only			VDE			
					25A/250VAC	65 ℃	100,000ops

Coil rating					
Rated voltage (VDC)	Rated current (mA)	Coil resistance (Ω±10%)	Operating power (mW)	Operating voltage (VDC)	Release voltage (VDC)
5	179	28	900	≤3.75	≥0.25
9	100	90	900	≤6.75	≥0.45
12	75	160	900	≤9.00	≥0.60
24	37.5	640	900	≤18.00	≥1.20

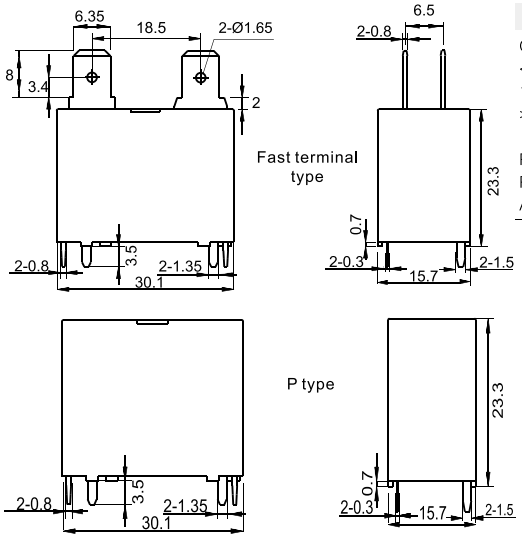
MAX. allowable coil voltage: 130% of rated coil voltage (Room temperature)

MAX.contact capacity

Life curve(25A)



Outline dimensions



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

PCB board layout (Bottom view)