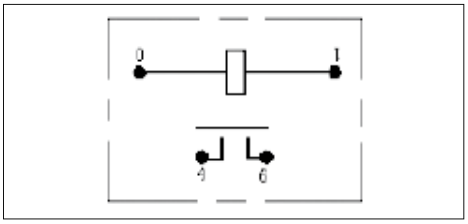
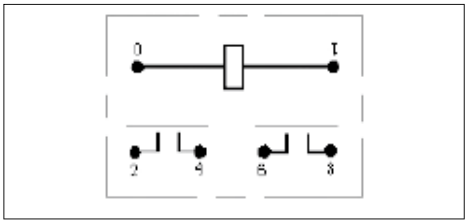
RH Magnetic Latching Relay

- 1 Form A and 2 Form A
- Rated current: 25 to 30 A
- Small and high-power
- AC/DC Input voltage

RH (1P)
1 Form A, 30 A

RH (2P)
2 Form A, 25 A





		Technical parameters	Technical parameters
Coil data			
Coil input voltage		6/12/24/48/100 V DC, 12/24/50/110/220 V AC	6/12/24/48/100 V DC, 12/24/50/110/220 V AC
Coil power		D Type: 1,900 mW, A Type: 1.7~2.5 VA	D Type: 1,900 mW, A Type: 1.7~2.5 VA
Response voltage		< 75% (Room temp.)	< 75% (Room temp.)
Drop out voltage		> 15% (Room temp.)	> 15% (Room temp.)
Operation time / Release time		Less than 30 ms / less than 30 ms	Less than 30 ms / less than 30 ms
Contact data			
Contact numbers		1 Form A	2 Form A
Contact material		Ag alloy	Ag alloy
Max. switching voltage		220 V AC	220 V AC
Max. swiching power		6,600 VA	5,500 VA
Contact ratings		30 A 220 V AC	25 A 220 V AC
Contact resistence		Max. 50 mΩ (1 A / 6 V DC)	Max. 50 mΩ (1 A / 6 V DC)
Mechanical service life		1×10^7 times	1×10^7 times
Electrical Service life	AC1	5×10^4 times	5×10^4 times
General data			
Rated withstand impulse voltage	Coil / Contact	4 kV AC / 1 min	4 kV AC / 1 min
	Between contacts	2 kV AC / 1 min	2 kV AC / 1 min
Surge voltage		2 kV AC / 1 min	2 kV AC / 1 min
Insulation Resistance		1,000 MΩ (500 V DC)	1,000 MΩ (500 V DC)
Vibration		Malfunction 10~55 Hz (Amplitude1.5 mm) Endurance 10~55 Hz (Amplitude1.5 mm)	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	Malfunction 98 m/s^2, Endurance 980 m/s^2
Ambient temperature (Operation)		-25~60 ℃ (No condensation)	-25~60 ℃ (No condensation)
Operating humidity		20~85%	20~85%
Dimension L×W×H (mm)		50.5×33.5×36.0	50.5×33.5×36.0
Enclosure type		Dust cover	Dust cover
Mounting		PCB & faston terminal & flange type	PCB & faston terminal & flange type
Weight (g)		93	93
Compliance certification number		cULus:E341569	cULus:E341569

Type designation

Model designation	Number of poles	Coil voltage	Coil type	Contact configuration	Terminal Shape	Installation Mode	Special request
RH	-2	12	D	M	P	1	-XXX
RH	1: 1 pole 2: 2 poles	DC: 6, 12, 24, 48, 100 AC: 12, 24, 50, 110, 220	D: DC A: AC	M: Form A	Blank: Faston terminal P: PCB	1: Standard 2: Flange	

Coil rating (D Type)					
Rated voltage (VDC)	Rated current (mA)	Coil resistance (Ω±10%)	Operating power (mW)	Operating voltage (VDC)	Release voltage (VDC)
6	317.5	18.9	1,900	≤4.50	≥0.90
12	160.0	75	1,900	≤9.00	≥1.80
24	79.2	303	1,900	≤18.00	≥3.60
48	39.3	1,220	1,900	≤36.00	≥7.20
100	19.0	5,260	1,900	≤75.00	≥15.00

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

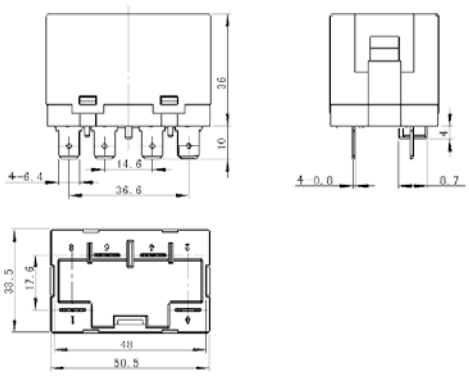
SSA approval rating		
cULus		
1formA	25A/220VAC	100,000ops
	30A/220VAC	100,000ops
1formC	20A/220VAC	100,000ops
	25A/220VAC	100,000ops

Coil rating (A Type)					
Rated voltage (VAC)	Rated current (mA)	Coil resistance (Ω±10%)	Operating power (VA)	Operating voltage (VAC)	Release voltage (VAC)
12	NA	58	1.7~2.5	≤9.00	≥1.80
24	NA	230	1.7~2.5	≤18.00	≥3.60
50	NA	1,000	1.7~2.5	≤37.50	≥7.50
110	NA	4,900	1.7~2.5	≤82.50	≥16.50
220	NA	1,9600	1.7~2.5	≤165.00	≥33.00

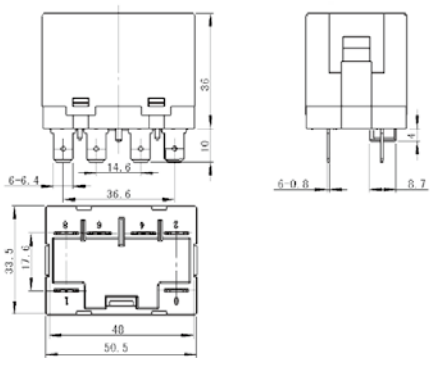
MAX. allowable coil voltage: 130% of rated coil voltage (Room temperature)

Outline dimensions

1 Form A (Standard & Fast terminal)

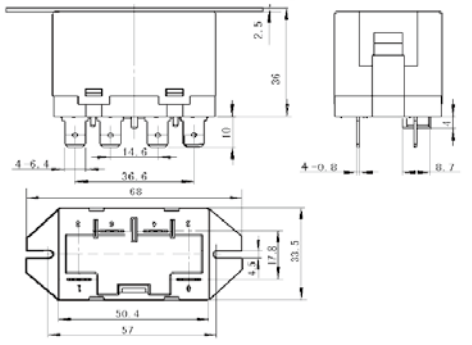


2 Form A (Standard & Fast terminal)

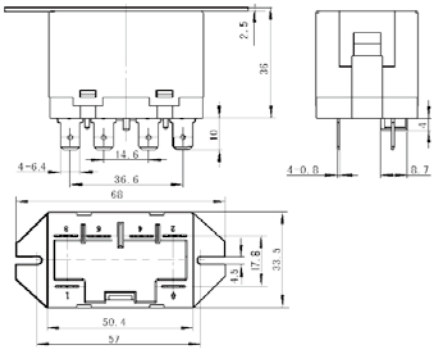


Tolerance	
Outline dimension	
<1mm	±0.2mm
1~5mm	±0.3mm
>5mm	±0.4mm
PCB board layout	
Pitch-row	±0.1mm
Aperture	+0.1mm

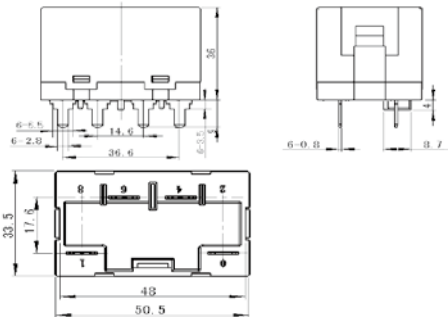
1 Form A (Flange & Fast terminal)



2 Form A (Flange & Fast terminal)



1 Form A (Standard & PCB)



2 Form A (Standard & PCB)