

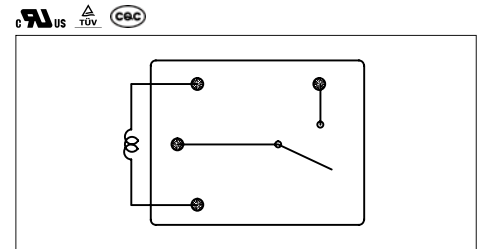
NEW / Preliminary Datasheet

RDH Power Relay

- 1 Form A
- Rated current: 17 A
- Slim type with 16 mm width
- High sensitivity: 360 mW
- Dielectric strength between coil and contact: 2500 V AC
- Product compliance for IEC60335-1 available



RDH
1 Form A, 17 A



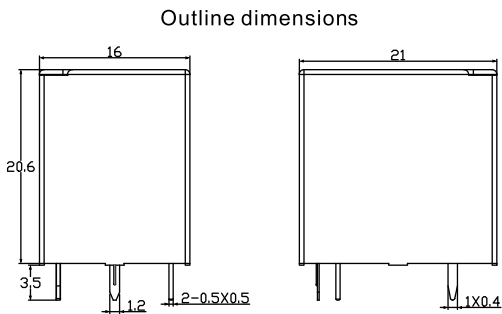
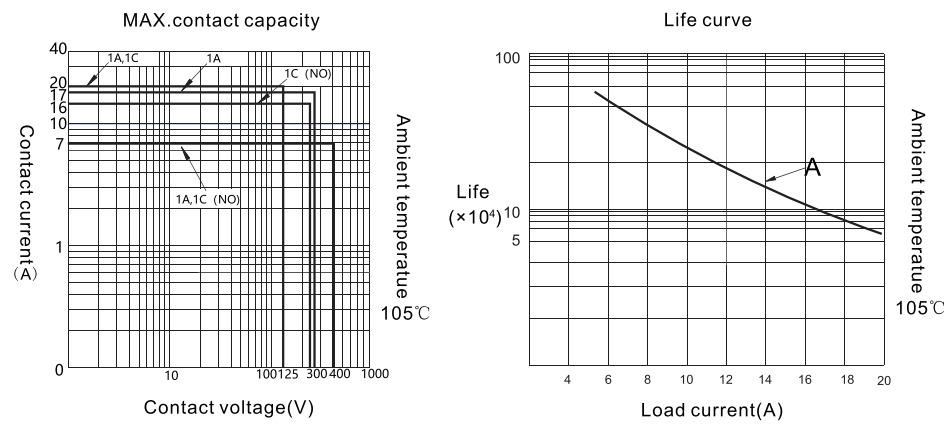
Technical parameters	
Coil data	
Coil input voltage	3/5/6/9/12/18/24/36/48 V DC
Coil power	200 mW
Response voltage	< 75% (Room temp.)
Drop out voltage	> 5% (Room temp.)
Operation time / Release time	Less than 10 ms / Less than 10 ms
Contact data	
Contact numbers	1 form A
Contact material	AgSnO ₂ , AgNi
Min. switching voltage	5 V DC
Max. switching voltage	277 V AC
Max. switching power	4709 VA
Contact ratings	17 A 277 V AC, TV-10, 1HP 240 V AC
Min. switching current	100 mA 5 V DC
Contact resistance	Max. 100mΩ (1 A / 6 V DC)
Mechanical service life	1×10 ⁷ times
Electrical Service life	1×10 ⁵ times
General data	
Rated withstand impulse voltage	Coil / Contact 4 kV AC / 1 min Between contacts 750 V AC / 1 min
Surge voltage	10 kV AC (1.2/50 μs)
Insulation Resistance	1000 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	-40~85 °C (No condensation)
Ambient temperature (Operation)	20~85%RH
Operating humidity	21.0×16.0×20.6
Dimension L×W×H (mm)	Flux-proof, sealed
Enclosure type	PCB
Mounting	Weight (g)
Weight (g)	12.6
Compliance certification number	CQC/TUV/UL

Type designation

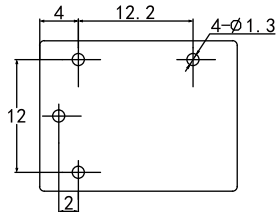
Model designation	Number of poles	Coil voltage	Coil power	Contact configuration	Contact material	Insulation class	Enclosure type	Special request
RDH	-1	12	D	M	3	F	-S	XXX
RDH	1: 1 pole	03: 3 V 05: 5 V 06: 6 V 09: 9 V 12: 12 V 18: 18 V 24: 24 V 36: 36 V 48: 48 V	D: 360 mW	M: 1 Form A	Blank: AgSnO ₂ 3: AgNi+AgSnO ₂	F: Class F	Blank: Flux-proof S: Sealed	

Coil rating					
Rated voltage (VDC)	Rated current (mA)	Coil resistance ($\Omega \pm 10\%$)	Operating power (mW)	Operating voltage (VDC)	Release voltage (VDC)
3	120	25	360	≤ 2.25	≥ 0.15
5	72	69.4	360	≤ 3.75	≥ 0.25
6	60	100	360	≤ 4.50	≥ 0.30
9	40	225	360	≤ 6.75	≥ 0.45
12	30	400	360	≤ 9.00	≥ 0.60
18	20	900	360	≤ 13.5	≥ 0.90
24	15	1600	360	≤ 18.00	≥ 1.20
36	10	3600	360	≤ 27.00	≥ 1.80
48	7.5	6400	360	≤ 36.00	≥ 2.40

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



PCB board layout (Bottom view)



Tolerance	
Outline dimension	
<1mm	±0.2mm
1~3mm	±0.3mm
>3mm	±0.4mm
PCB board layout	
Pitch-row	±0.1mm
Aperture	+0.1mm