

INDUSTRIAL RELAYS

The RH series is a small size relay with a 10A capacity. This relay also offers operating power of 250mW and a nominal power rating of 450mW.

UL & CUL File #E223388

FEATURES

- 10 Amps small size relay.
- 1A (SPST-NO), 1C (SPDT) arrangements.
- Standard coils consume low power in small package.
- Nominal power 450mW.
- Operating power 250mW.
- Printed circuit terminals-fits grid with 2.54mm.
- Washable type.

ORDERING INFORMATION

RH 1C - 12 H G S D P
(1) (2) (3) (4) (5) (6) (7) (8)

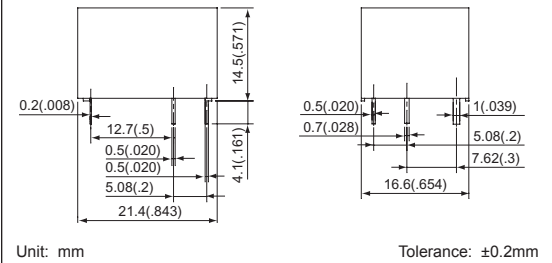
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|---|---|
| (1) Basic Designation
RH = RH Series | (5) Contact Material
Nil = General Contact
G = Contact with Gold Plating |
| (2) Contact Arrangement
1A = 1 Form A (SPST-NO)
1C = 1 Form C (SPDT) | (6) Enclosure
Nil = Unsealed
S = Sealed Type |
| (3) Coil Voltage
3~48V | (7) Surge Strength
Nil = Standard
D = High Dielectric |
| (4) Coil Sensitivity
Nil = Standard Type
H = High Sensitive Type | (8) RoHS Compliance
P = RoHS
Nil = Standard |

COIL RATINGS (AT 20°C)

Coil Type	Coil Nominal Voltage (V)	Coil Resistance ($\Omega \pm 10\%$)	Pick-up Voltage (V) $\leq$	Drop-Out Voltage (V) $\geq$	Nominal Current (mA)
DC Standard Coils (0.45W)	3	20	2.25	0.3	150
	5	56	3.75	0.5	89.3
	6	80	4.5	0.6	75
	9	180	6.75	0.9	50
	12	320	9	1.2	37.5
	24	1150	18	2.4	20.9
DC High Sensitive Coils (0.33W)	48	4600	36	4.8	10.4
	3	27	2.25	0.3	111
	5	80	3.75	0.5	62.5
	6	110	4.5	0.6	54.5
	9	250	6.75	0.9	36
	12	440	9	1.2	27
	24	1760	18	2.4	13.5
	48	6980	36	4.8	9.2

* Max continuous Voltage at 20°C: 130% of Coil Nominal Voltage.

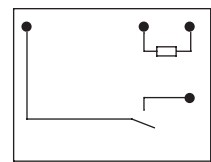
DIMENSIONS



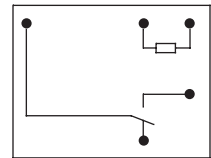
SCHEMATICS

(bottom view)

1A

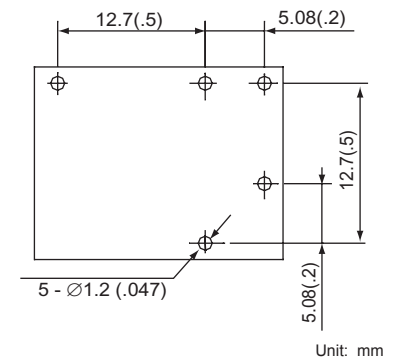


1C



PCB LAYOUT

(bottom view)



CONTACT RATINGS

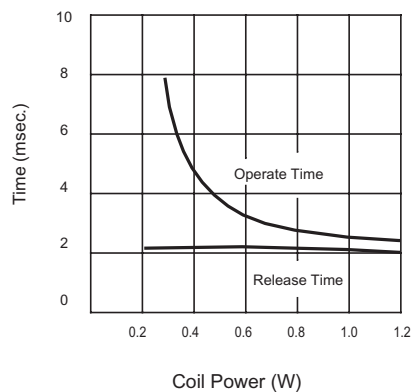
Contact Arrangement	1A (SPST-NO)	1C (SPDT)
Max. Switching Power	1200VA 280W	
Max. Switching Voltage	240VAC 28VDC	
Max. Switching Current	10A	
Contact Resistance	≤50mΩ	
Rating Load	10A / 120VAC 10A / 28VDC 5A / 240VAC	
Contact Material	silver alloy	

CHARACTERISTICS

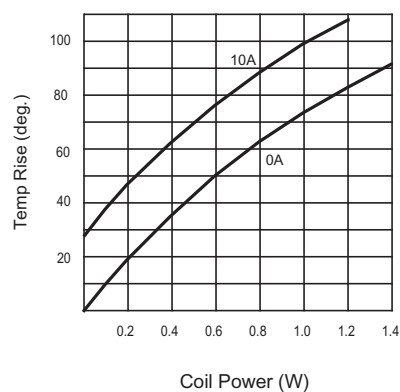
Electrical Life	1 x 10 ⁵ min.
Mechanical Life	1 x 10 ⁷ min.
Initial Insulation Resistance	Min. 100MΩ 500VDC
Contact Resistance (Initial)	≤50mΩ
Operate Time	≤10ms max.
Release Time	≤5ms max.
Initial Dielectric Strength	50/60Hz 750VAC 1 min. (between open contacts) 50/60Hz 2000VAC 1 min. (between all conductors)
High Dielectric Strength	50/60Hz 1500VAC 1 min. (between open contacts) 50/60Hz 4000VAC 1 min. (between all conductors)
Vibration Resistance	Malfunction: 10 to 55Hz at double Amplitude of 1.5mm Destructive: 10 to 55Hz at double Amplitude of 1.5mm
Shock Resistance	Malfunction: Min. 10G (11ms) Destructive: Min. 100G (6ms)
Ambient Temperature	-55°C ~ +70°C
Relative Humidity	85% at 40°C
Unit Weight	Approx. 7.7g

REFERENCE DATA

Timing



Coil Temperature Rise



Life Curves

