



»» Features

- Heavy duty sugar cube relay with 20A 120VAC, 16A 240VAC, TV-8 rating.
- UL & VDE safety approval.
- Optional for flux free, sealed type and sealed type washable cover, SPNO, SPDT contact configuration.
- High CTI 250 material or product comply with IEC 60335-1 are available.
- High performance PCB power relay for motor control, compressor control, home appliances.
- Complies with RoHS-Directive 2011/65/EU.
- Optional for halogen free version.

»» Type List

◆ Standard type

Terminal style	Contact form	Insulation system	Designation (provided with)		
			Flux tight	Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	-----	207-1AH-C	207-1AH-V	207-1AH-S
		F	207-1AH-F-C	207-1AH-F-V	207-1AH-F-S

◆ High power type

PCB terminal	1A (SPNO)	-----	207H-1AC-C	207H-1AC-V	207H-1AC-S
		F	207H-1AC-F-C	207H-1AC-F-V	207H-1AC-F-S

»» Ordering Information

207 - 1A H - - C
 1 2 3 4 5 6 7 8

1. 207 -- Basic series designation

2. Blank -- Standard type
 H -- High power type

3. Blank -- Standard type
 A -- Double pin type

4. 1A -- Single pole normally open
 1C -- Single pole double throw

5. C -- Contact material AgNi
 H -- Contact material AgSnO

6. Blank -- Standard type
 F -- Class F

7. C -- Flux tight
 V -- Sealed type
 S -- Sealed type washable

8. -- Coil voltage (please refer to the coil rating data for the availability)

»» Contact Rating

◆ 207

Resistive load	NO : 17A 240VAC 100K cycles 10A 240VAC at 105°C 300K cycles (B10 value)
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◆ 207H

Resistive load	NO : 17A 240VAC 100K cycles 16A 240VAC at 105°C 100K cycles 10A 240VAC at 105°C 300K cycles
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»» Coil Rating (DC)

Rated voltage (V)	Rated current $\pm 10\%$ at 23°C (mA)	Coil resistance $\pm 10\%$ at 23°C (Ω)	Max. continuous voltage at 85°C	Pick up voltage(Max.) at 23°C	Drop out voltage(Min.) at 23°C	Power consumption at rated voltage
3	130	23	150 % of rated voltage	75 % of rated voltage	5 % of rated voltage	approx. 0.4W
5	79	63				
6	67	90				
9	44	203				
12	33	360				
18	22	810				
24	17	1440				
36	11	3240				
48	8	5760				

»» Specification

Contact material	AgSnO / AgNi alloy	
Contact resistance ⁽¹⁾	100m Ω Max. (at 1A/6VDC by 4-wire resistance measurement)	
Operate time ⁽¹⁾	15ms Max.	
Release time ⁽¹⁾	10ms Max.	
Insulation resistance ⁽¹⁾	100M Ω Min. (DC 500V)	
Dielectric strength ⁽¹⁾	Between open contact	: AC 1000V, 50/60Hz 1 min.
	Between contact and coil	: AC 2500V, 50/60Hz 1 min.
Vibration resistance	Operating extremes	10~50Hz , amplitude 1.0 mm
	Damage limits	10~50Hz , amplitude 1.0 mm
Shock resistance	Operating extremes	10G
	Damage limits	100G
Life expectancy	Mechanical	10,000,000 operations (frequency 18,000 operations/hr)
	Electrical	See contact rating. (frequency 360 operations/hr)
Operating ambient temperature	-40~+85°C (no freezing) ⁽²⁾	
Weight	Approx. 15 g	

Note : (1) Initial value. Operate and release time excluding contact bounce.

(2) special version of high temperature 105°C can be selected.

»» Safety Approval

Certified	UL / CUL	VDE
File No.	E88991	40025801

»» Safety Approval Rating

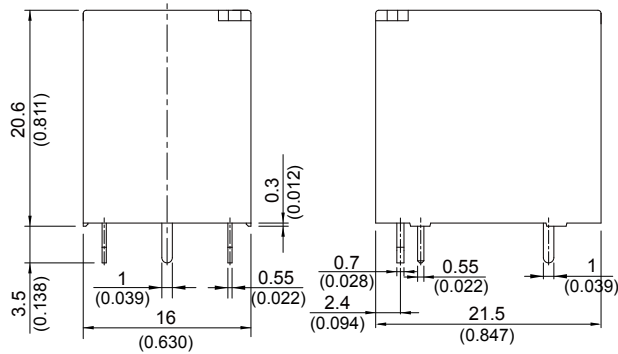
UL / CUL		VDE
207	207H	
NO : 20A 277VAC (※) 1HP 125VAC TV-5 (for AgSnO contact)	NO : 20A 277VAC (※) 1HP 125VAC TV-8 (for AgSnO contact)	17A 250VAC T105

Note : (1) Flux tight version is recommended in high temperature. If there is cleaning process and sealed type is selected, the vent-hole should be removed after the process.

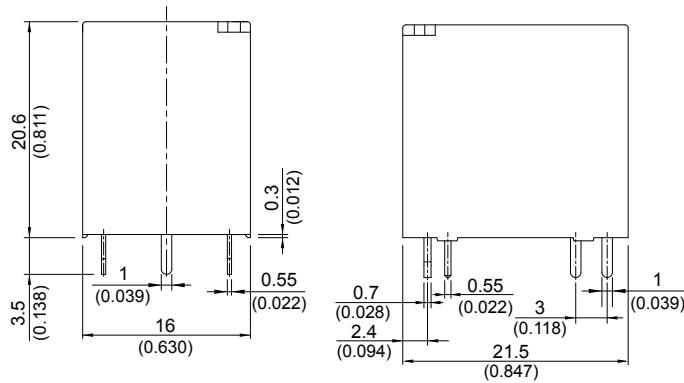
(2) (※) For non-industrial application.

»» Outline Dimensions

◆207,207H



◆207A,207HA

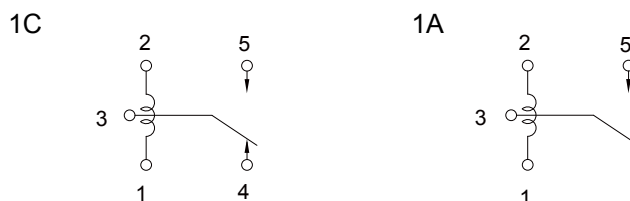


TOLERANCE:
 LESS THAN: 1(0.039) ±0.1(0.004)
 5(0.197) ±0.3(0.012)
 20(0.787) ±0.5(0.020)
 MORE THAN: 20(0.787) ±1(0.039)

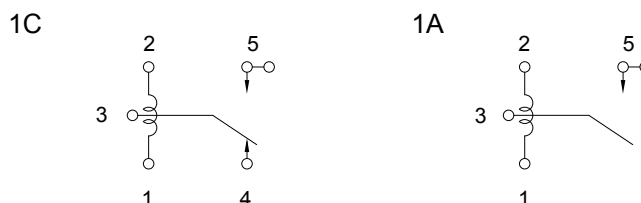
»» Wiring Diagram

BOTTOM VIEW

◆207,207H



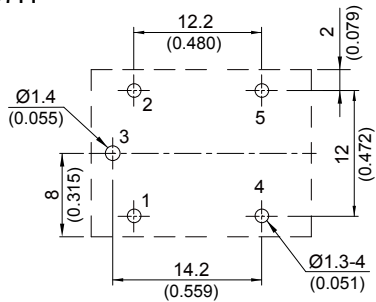
◆207A,207HA



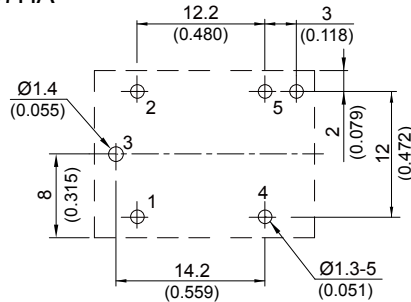
PC Board Layout

BOTTOM VIEW

◆207,207H



◆207A,207HA



Engineering Data

