SONG CHUAN

307 Rus & A



>>>> Features

□ Miniature 12A 125VAC, 10A 250VAC/30VDC PCB Relay.
 □ UL/CUL, TUV, VDE approved.

- \Box 450mW and 200mW coil are available.
- □ High CTI 250 material or product comply with IEC 60335-1 are available.
- □ Complies with RoHS-Directive 2011/65/EU.
- $\hfill\square$ Optional for halogen free version.
- $\hfill\square$ Optional for explosion-proof version.

>>>> Type List

Standard type

Terminal	Contact	Insulation	Designation (provided with)			
style	form	system	Flux tight	Sealed type	Sealed type washable	
PCB terminal	1A		307-1AH-C	307-1AH-V	307-1AH-S	
	(SPNO)	F	307-1AH-F-C	307-1AH-F-V	307-1AH-F-S	
 High power type 						

PCB terminal	1A		307H-1AC-C	307H-1AC-V	307H-1AC-S
PCB terminal	(SPNO)	F	307H-1AC-F-C	307H-1AC-F-V	307H-1AC-F-S

>>>> Ordering Information

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307 1	2 3 - 1A H - 2 3 4 5	 6	C [7 8	3
1. 307	Basic series designation		6. Blank	Standard type
2. Blank H	Standard type High power type		F 7. C	Class F Flux tight
3. Blank N	Standard type High sensitivity type		V S	Sealed type Sealed type washable
4. 1A	Single pole normally open		8.	Coil voltage (please refer to the
5. C H	Contact material AgNi Contact material AgSnO			coil rating data for the availability)

>>>> Contact Rating

Туре	307	307H
Resistive load	5A 240VAC	8A 240VAC 10A 240VAC ^(*) 12A 125VAC ^(*)

Note: 307H special version of 10A 240VAC 100K ops. can be selected.

>>> Coil Rating (DC)

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	Stand	dard	Ty	ре

Rated voltage (V)	Rated current ±10 % at 23°C (mA)	Coil resistance ±10 % at 23°C (Ω)	Max. continuous voltage at 70°C (307) at 85°C (307H)	Pick up voltage(Max.) at 23°C	Drop out voltage(Min.) at 23°C	Power consumption at rated voltage
3	150	20				
5	90.9	55				
6	75	80	130 % of	75 % of	5 % of	
9	50	180	rated	rated	rated	approx. 0.45W
12	37.5	320	voltage	voltage	voltage	
18	25	720				
24	18.8	1280				

307



High sensitivity type

Rated voltage (V)	Rated current ±10 % at 23°C (mA)	Coil resistance ±10 % at 23°C (Ω)	Max. continuous voltage at 70°C (307) at 85°C (307H)	Pick up voltage(Max.) at 23°C	Drop out voltage(Min.) at 23°C	Power consumption at rated voltage
3	66.7	45				
5	40.0	125				
6	33.3	180	130 % of	80 % of	5 % of	
9	22.2	405	rated	rated	rated	approx. 0.2W
12	16.7	720	voltage	voltage	voltage	
18	11.1	1620]			
24	8.3	2880]			

>>>> Specification

Contact material	AgNi / AgSnO alloy			
Contact resistance (1)	100m Ω Max. (at 1A/6VDC by 4-wire resistance measurement)			
Operate time ⁽¹⁾	10ms Max			
Release time ⁽¹⁾	5ms Max.			
Insulation resistance ⁽¹⁾	100MΩ Mi	n. (DC 500	V)	
Dielectric strength ⁽¹⁾	Between o	pen contac	ct : AC 1000V, 50/60Hz 1 min.	
	Between contact and coil : AC 2500V, 50/60Hz 1 min			
Vibration resistance	Operating extremes		$10\!\sim\!50Hz$, amplitude 1.0 mm	
VIDIATION TESISTANCE	Damage limits		$10\!\sim\!50Hz$, amplitude 1.0 mm	
Shock resistance	Operating extremes		10G	
Shock resistance	Damage limits		100G	
	Mechanical		10,000,000 ops.	
Life expectancy			(frequency 18,000 ops./hr)	
Life expectancy	Electrical		100,000 ops. (%)30,000 ops.	
	Liectrical		(frequency 360 ops./hr)	
Operating ambient temperature	307		$-30 \sim +70$ °C (no freezing)	
	307H		-40 \sim +85 °C (no freezing) $^{(2)}$	
Weight	Approx. 6 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	TUV	VDE
Certilled	307, 307H	307	307H
File No.	E88991	R50128391	40028236

>>>> Safety Approval Rating

UL/	CUL	TUV	VDE
307	307H	307	307H
5A 277VAC 5A 30VDC 1/4HP 125/250VAC	10A 277VAC 10A 30VDC 12A 125VAC 1/4HP 125/250VAC TV-3 (for AgSnO contact)	5A 250VAC 5A 30VDC	10A 250VAC T85 6A 250VAC T105

Note : If there is cleaning process and sealed type is selected, the vent-hole should be removed after the process.