

»» Features

- ☐ 10A 277VAC high rating miniature PCB Relay.
- ☐ Special design for White Good and Heating Element applications.
- ☐ High insulation 8mm, 4KV.
- ☐ High CTI greater than 250 and New Glow Wire approved. (E version)
- ☐ Comply with RoHS-Directive 2002/95/EC.

»» Type List

◆ Standard Type

Terminal style	Contact form	UL Insulation system approval	Designation (provided with)		
			Flux tight	Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	F	101-1AH-F-C	101-1AH-F-V	101-1AH-F-S
		F	101-1AHA-F-C	101-1AHA-F-V	101-1AHA-F-S
	1B (SPNC)	F	101-1BH-F-C	101-1BH-F-V	101-1BH-F-S
		F	101-1BHA-F-C	101-1BHA-F-V	101-1BHA-F-S
	1C (SPDT)	F	101-1CH-F-C	101-1CH-F-V	101-1CH-F-S
		F	101-1CHA-F-C	101-1CHA-F-V	101-1CHA-F-S

◆ High Sensitivity Type

PCB terminal	1A (SPNO)	F	101N-1AH-F-C	101N-1AH-F-V	101N-1AH-F-S
		F	101N-1AHA-F-C	101N-1AHA-F-V	101N-1AHA-F-S
	1B (SPNC)	F	101N-1BH-F-C	101N-1BH-F-V	101N-1BH-F-S
		F	101N-1BHA-F-C	101N-1BHA-F-V	101N-1BHA-F-S
	1C (SPDT)	F	101N-1CH-F-C	101N-1CH-F-V	101N-1CH-F-S
		F	101N-1CHA-F-C	101N-1CHA-F-V	101N-1CHA-F-S

»» Ordering Information

101 ☐ - 1A C - ☐ - C ☐

1 2 3 4 5 6 7

- | | |
|--------------------------------------|-----------------------------|
| 1. 101 -- Basic series designation | 5. Blank -- Standard type |
| | F -- Class F |
| 2. Blank -- Standard type | 6. C -- Flux tight |
| N -- High sensitivity type | V -- Sealed type |
| 3. 1A -- Single pole normally open | S -- Sealed type washable |
| 1B -- Single pole normally closed | |
| 1C -- Single pole double throw | 7. Blank -- Standard type |
| | E -- CTI 250V |
| 4. C -- Contact material AgNi | |
| CA -- Contact material AgNi+Au | |
| H -- Contact material AgSnO | |
| HA -- Contact material AgSnO+Au | |

»» Contact Rating

Rated load (resistive)	NO : 8A 240VAC NC : 5A 240VAC NO/NC : 8A/3A 240VAC
Max. switching current	8A
Max. switching voltage	277VAC
Max. switching capacity	1920VA

»» Coil Rating (DC)

◆Standard Type

Rated voltage (V)	Rated current ±10 % at 23°C (mA)	Coil resistance ±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	120	25	160 % of rated voltage	75 % of rated voltage	5 % of rated voltage	approx. 0.36W
5	72.5	69				
6	60	100				
9	40	225				
12	30	400				
18	20	900				
24	12	1600				
36	10	3600				
48	7.5	6400				
60	6	10000				

◆High Sensitivity Type

Rated voltage (V)	Rated current ±10% at 23°C (mA)	Coil resistance ±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	75	40	180 % of rated voltage	75 % of rated voltage	5 % of rated voltage	approx. 0.22W
5	44.3	113				
6	36.8	163				
9	24.5	368				
12	18.3	655				
18	12.2	1473				
24	9.2	2610				
36	6.1	5902				
48	4.6	10435				
60	3.7	16210				

»» Specification

Contact material	AgSnO alloy	
Contact resistance ⁽¹⁾	100mΩ Max. (1A(100mA for Au-plating contact)/6VDC by 4 pipes mΩ meter)	
Operate time ⁽¹⁾	6ms Max.	
Release time ⁽¹⁾	2ms Max.	
Insulation resistance ⁽¹⁾	1000MΩ Min. (DC 500V)	
Dielectric strength ⁽¹⁾	Between open contact	: AC 1000V, 50/60Hz 1 min. (typ.)
	Between contact and coil	: AC 5000V, 50/60Hz 1 min.
Vibration resistance	Operating extremes	10~500Hz , NO : 20G , NC : 5G
	Damage limits	10~55Hz , amplitude 1.5 mm
Shock resistance	Operating extremes	10G
	Damage limits	100G
Life expectancy	Mechanical	10,000,000 operations (frequency 72,000 operations/hr)
	Electrical	100,000 operations (frequency 360 operations/hr)
Operating ambient temperature	-40~+85°C (no freezing)	
Weight	Approx. 5.5 g	

Note : (1) initial value

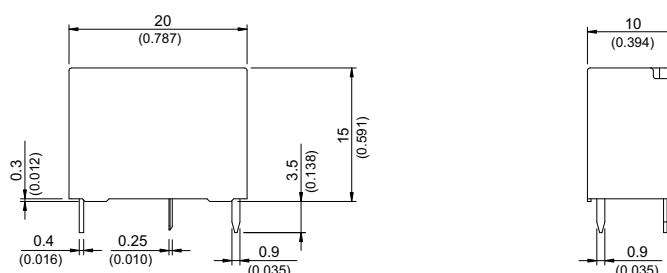
»» Safety Approval

Certified	UL / CUL	VDE
File No.	E74321	40006691

»» Safety Approval Rating

UL / CUL	VDE
NO : 10A 277VAC NC : 6A 277VAC	NO : 8A 250VAC T85 NC : 6A 250VAC T85

»» Outline Dimensions



»» Wiring Diagram BOTTOM VIEW

1C



1A



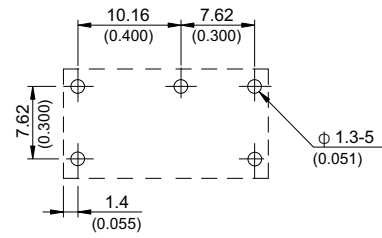
1B



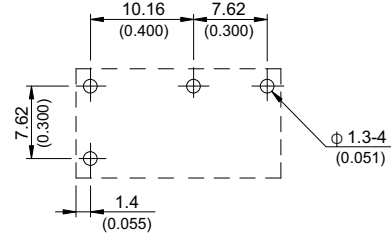
»» PC Board Layout

BOTTOM VIEW

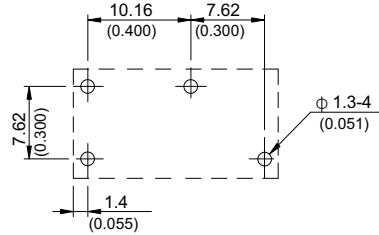
1C



1A



1B



»» Engineering Data

