



»» Features

- Optional for open frame, dust cover, sealed type and with/without quick terminal on top.
- High rating 20A 240VAC.
- Ideal for home appliances application, specially for heating control use.
- Complies with RoHS-Directive 2011/65/EU.

»» Type List

Terminal style	Contact form	Insulation system	Designation		
			Flux tight	Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	----	805-1AC-C	805-1AC-V	805-1AC-S
			805-1AH-C	805-1AH-V	805-1AH-S
	1C (SPDT)	----	805-1CC-C	805-1CC-V	805-1CC-S
			805-1CH-C	805-1CH-V	805-1CH-S
	1A (SPNO)	F	805-1AC-F-C	805-1AC-F-V	805-1AC-F-S
			805-1AH-F-C	805-1AH-F-V	805-1AH-F-S
	1C (SPDT)	F	805-1CC-F-C	805-1CC-F-V	805-1CC-F-S
			805-1CH-F-C	805-1CH-F-V	805-1CH-F-S
WP (PCB terminal & Quick terminal)	1A (SPNO)	----	805WP-1AC-C	805WP-1AC-V	805WP-1AC-S
			805WP-1AH-C	805WP-1AH-V	805WP-1AH-S
	1C (SPDT)	----	805WP-1CC-C	805WP-1CC-V	805WP-1CC-S
			805WP-1CH-C	805WP-1CH-V	805WP-1CH-S
	1A (SPNO)	F	805WP-1AC-F-C	805WP-1AC-F-V	805WP-1AC-F-S
			805WP-1AH-F-C	805WP-1AH-F-V	805WP-1AH-F-S
	1C (SPDT)	F	805WP-1CC-F-C	805WP-1CC-F-V	805WP-1CC-F-S
			805WP-1CH-F-C	805WP-1CH-F-V	805WP-1CH-F-S
Terminal style	Contact form	Insulation system	Designation		
			Flux tight (with shroud)	Sealed type washable (with shroud)	
WP (PCB terminal & Quick terminal)	1A (SPNO)	----	805WP-1AC-CF	805WP-1AC-SF	
			805WP-1AH-CF	805WP-1AH-SF	
	1C (SPDT)	----	805WP-1CC-CF	805WP-1CC-SF	
			805WP-1CH-CF	805WP-1CH-SF	
	1A (SPNO)	F	805WP-1AC-F-CF	805WP-1AC-F-SF	
			805WP-1AH-F-CF	805WP-1AH-F-SF	
	1C (SPDT)	F	805WP-1CC-F-CF	805WP-1CC-F-SF	
			805WP-1CH-F-CF	805WP-1CH-F-SF	

»» Ordering Information

805 - 1A C - - -

1 2 3 4 5 6 7 8

- | | |
|---|------------------------------------|
| 1. 805 -- Basic series designation | 3. 1A -- Single pole normally open |
| | 1C -- Single pole double throw |
| 2. Blank -- PCB terminal | |
| W -- Quick terminal (only for C1 cover) | 4. C -- Contact material AgNi |
| WP -- PCB terminal & Quick terminal | H -- Contact material AgSnO |

5. Blank -- Standard type
 F -- Class F
6. Blank -- Open type
 C -- Flux tight
 V -- Sealed type
 S -- Sealed type washable
 CF -- Flux tight with shroud
- SF -- Sealed type washable with shroud
 C1 -- With flanged cover
 S1 -- Sealed type washable with flanged cover
7. Blank -- Standard type
 B -- With insulation barrier
8. -- Coil voltage (please refer to the coil rating data for the availability)

»» Contact Rating

Resistive load	20A 240VAC
Max. switching current	30A
Max. switching voltage	277VAC
Max. switching capacity	4800VA

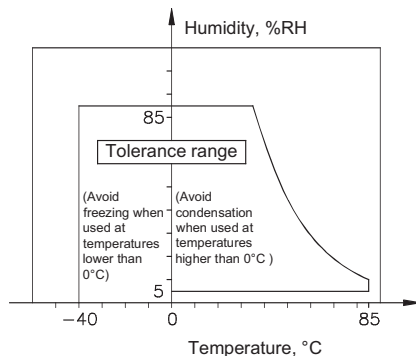
»» Coil Rating (DC)

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
5	139	36	130 % of rated voltage	75 % of rated voltage	10 % of rated voltage	approx. 0.7W
6	118	51				
9	78	116				
12	58	206				
18	39	463				
24	29	823				
36	19	1,851				
48	15	3,291				
110	6	17,286				

»» Specification

Contact material	AgNi / AgSnO alloy	
Contact resistance ⁽¹⁾	50m Ω Max. (at 1A/6VDC by 4-wire resistance measurement)	
Operate time ⁽¹⁾	15 ms Max.	
Release time ⁽¹⁾	10 ms Max.	
Vibration resistance	Operating extremes	10~ 55Hz , amplitude 1.5 mm
	Damage limits	10~ 55Hz , amplitude 1.5 mm
Shock resistance	Operating extremes	10G
	Damage limits	100G
Life expectancy	Mechanical	10,000,000 ops. (frequency 18,000 ops./hr)
	Electrical	100,000 ops. (for NO contact) (frequency 900 ops./hr)
Operating ambient temperature	-40~ +85°C (no freezing) ⁽²⁾	
Weight	Approx. 22 g (open type), 27g (with cover), 36g (WP) , 38g (W)	

- Note : (1) Initial value. Operate and release time excluding contact bounce.
- (2) Special version of high temperature 105 °C can be selected.
- (3) Unless otherwise specified, all tests are under room temperature and humidity.
- (4) Consider the heat of PCB is necessary, please check the actual condition of PCB.
- (5) Applying no diode to this relay. The life expectancy will be lower when a diode is used. To use a varistor (ZNR) could absorb the coil surge of relay that is recommended.
- (6) Do not use the relay exceeding the coil rating, contact rating and life expectancy, or this may cause the risk of overheating.
- (7) To assure optimum performance, avoid the relay from dropping, hitting, or other unnecessary shocks.
- (8) Do not switch the contacts without any load as the contact resistance may become increased rapidly.
- (9) Flux tight version is recommended. If there is cleaning process and sealed type is selected, the vent-hole should be removed after the process.
- (10) Use suitable harnesses and bus bars according to the current as below :
20A type : Min. 3.0 mm
- (11) Usage, transport and storage conditions
- 1. Temperature: -40 ~ +85 °C
 - 2. Humidity: 5 to 85% R.H.
 - 3. Pressure: 86 to 106 kPa
 - Furthermore, the humidity range varies with the temperature. So, use relays within the range indicated in the graph below.



- (12) Please contact Song Chuan for the detailed information.

»» Insulation Data

Insulation resistance ⁽¹⁾	100 MΩ Min. (DC 500V)
Surge voltage withstand	Between contact and coil : 6KV 1.2X50 μ S
Dielectric strength ⁽¹⁾	Between open contact : AC 1000V , 50/60Hz 1min.
	Between contact and coil : AC 2500V , 50/60Hz 1min
Insulation of IEC 61810-1	
Clearance / creepage distances	Between coil to contact : Basic, ≥ 1.5mm / ≥ 2.5mm
	Between open contact : Functional
Rated insulation voltage	250V
Rated impulse withstand voltage	2500V
Pollution degree	2
Rated voltage	230 / 400V
Overvoltage category	II

Note : (1) Initial value.

»» Safety Approval

Certified	UL / CUL
File No.	E88991

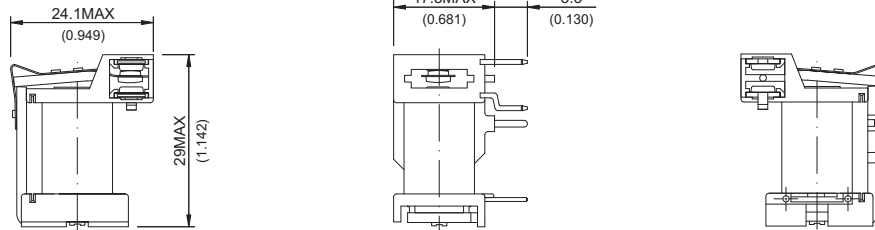
805

»» Safety Approval Rating

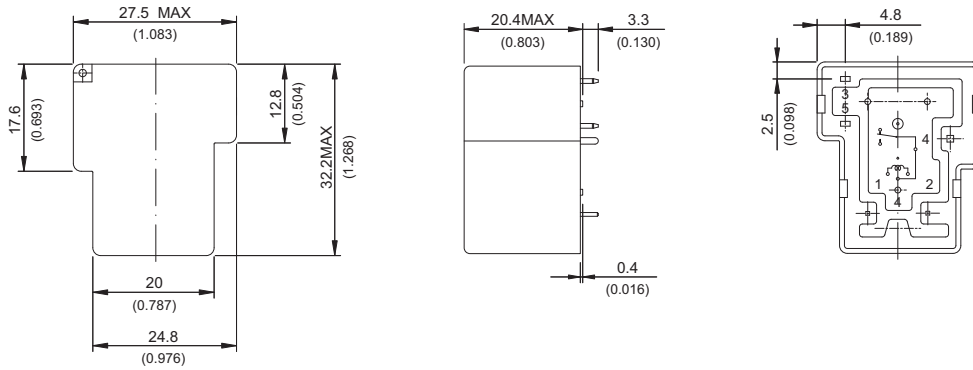
UL / CUL
30A 277VAC

»» Outline Dimensions

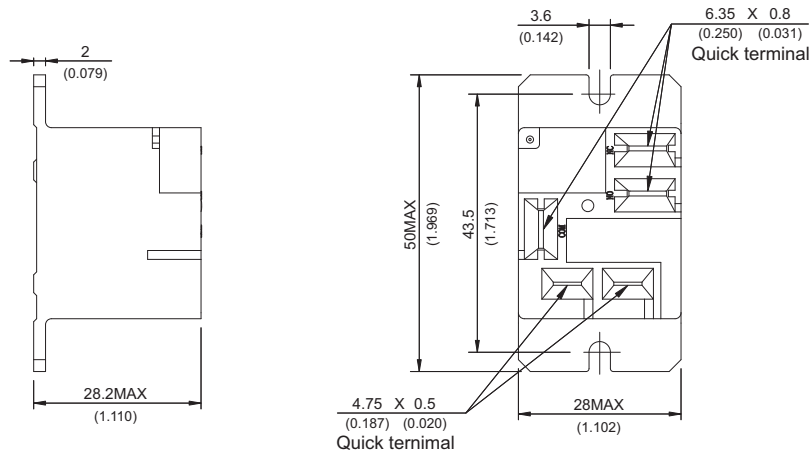
◆ 805 (OPEN)



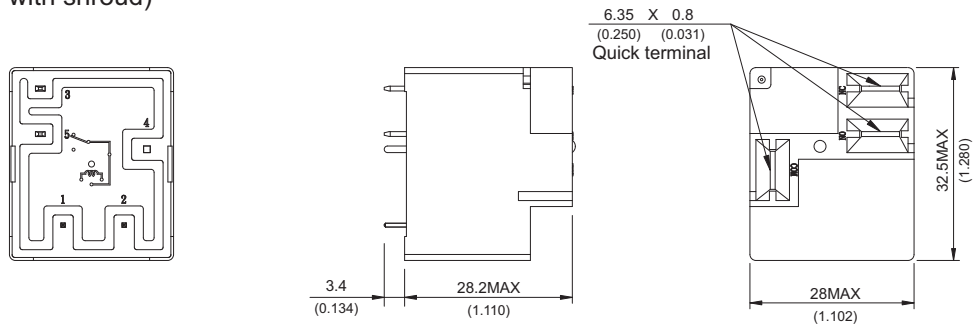
◆ 805 (-C,-V,-S)



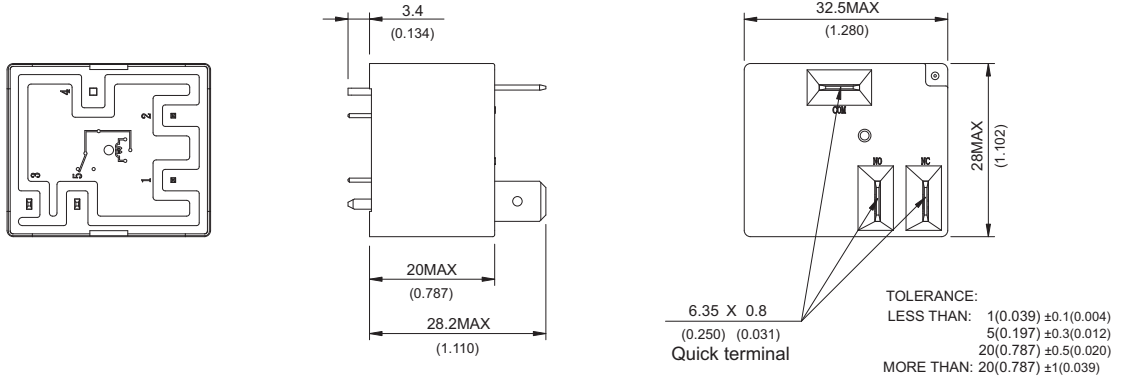
◆ 805W



◆ 805WP (Cover with shroud)



◆805WP



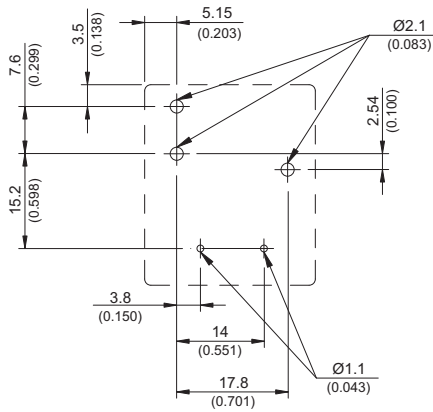
»» Wiring Diagram
BOTTOM VIEW



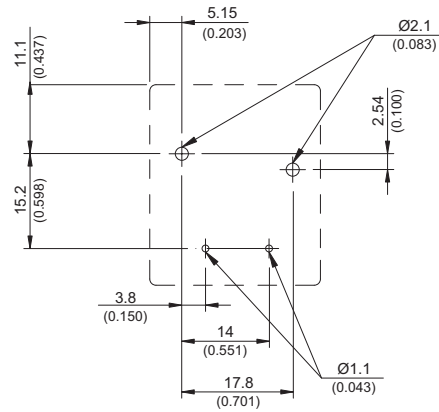
»» PC Board Layout
BOTTOM VIEW

◆805WP/805WP(Cover with shroud)

1C

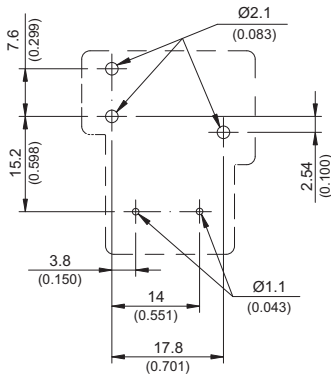


1A

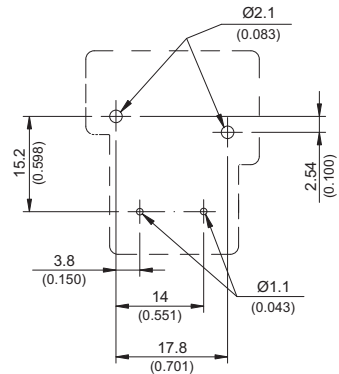


◆805

1C



1A



»» Engineering Data

