



891



»» Features

- 25A miniature general purpose Power Relay.
- With or without quick terminal & PCB terminal.
- CSA/CUS, TUV,UL/CUL approved.
- Designed for compressor load switching application and office equipment of motor control or lamp load switching.
- Comply with RoHS-Directive 2011/65/EU.

»» Type List

Terminal style	Contact form	Designation
WP (Quick terminal & PCB terminal)	SPNO	891WP-1A-C
P (PCB terminal)	SPNO	891P-1A-C

»» Ordering Information

891 WP - 1A - F - C XXVDC
 1 2 3 4 5 6

- | | |
|--------------------------------------|---|
| 1. 891 -- Basic series designation | 4. Blank -- Standard type |
| | F -- Class F |
| 2. P -- PCB terminal | 5. C -- Flux tight |
| WP -- Socket terminal & PCB terminal | |
| 3. 1A -- Single pole normally open | 6. XXVDC -- Coil voltage (please refer to the coil rating data for the availability). |

»» Contact Rating

Resistive load	25A 250VAC
Inductive load / Compressor load	Inrush 80A 240VAC $\cos\phi 0.7$ Steady state 20A 240VAC $\cos\phi 0.9$

»» 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	180	27.8	150 % of rated voltage	75 % of rated voltage	10 % of rated voltage	approx. 0.9W
6	150	40				
9	100	90				
12	75	160				
24	38	640				
48	19	2560				

»» Specification

Contact material	AgSnO alloy	
Contact resistance ⁽¹⁾	100mΩ Max.	
Operate time ⁽¹⁾	20ms Max.	
Release time ⁽¹⁾	10ms Max.	
Insulation resistance ⁽¹⁾	1000 MΩ Min. (DC 500V)	
Dielectric strength ⁽¹⁾	Between open contact	: AC 1000V , 50/60Hz 1 min.
	Between contact and coil	: AC 4500V , 50/60Hz 1 min.
Vibration resistance	Operating extremes	10~55Hz , amplitude 1.5 mm
	Damage limits	10~55Hz , amplitude 2.0 mm
Shock resistance	Operating extremes	10G
	Damage limits	100G
Life expectancy	Mechanical	5,000,000 operations (frequency 18,000 operations/hr)
	Electrical	100,000 operations (frequency 360 operations/hr)
Operating ambient temperature	-40~+ 85°C (no freezing)	
Weight	Approx. 22g	

Note : (1) initial value

»» Safety Approval

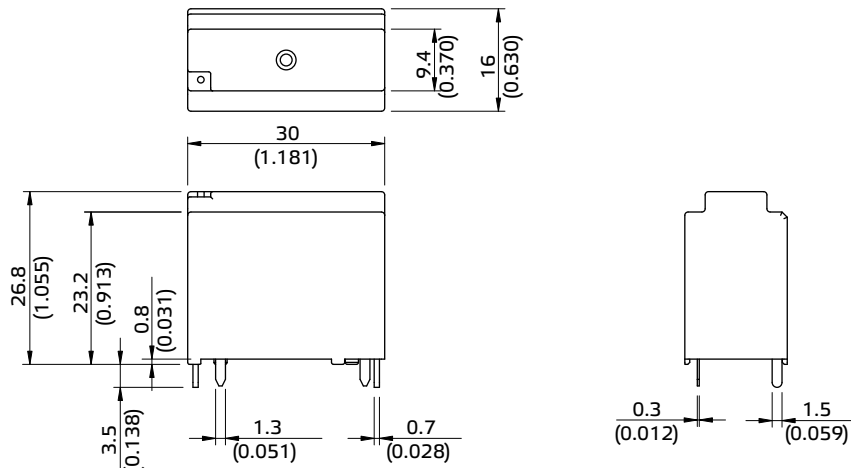
Certified	CSA / CUS	TUV	UL / CUL
File No.	1165173	R3-50003966	E88991

»» Safety Approval Rating

CSA / CUS	TUV	UL / CUL
25A 277VAC 1.5HP 125/250VAC	25A 250VAC 20A 250VAC cosφ0.7	25A 277VAC 1.5HP 125VAC/250VAC 18FLA/98LRA 240VAC

»» Outline Dimensions

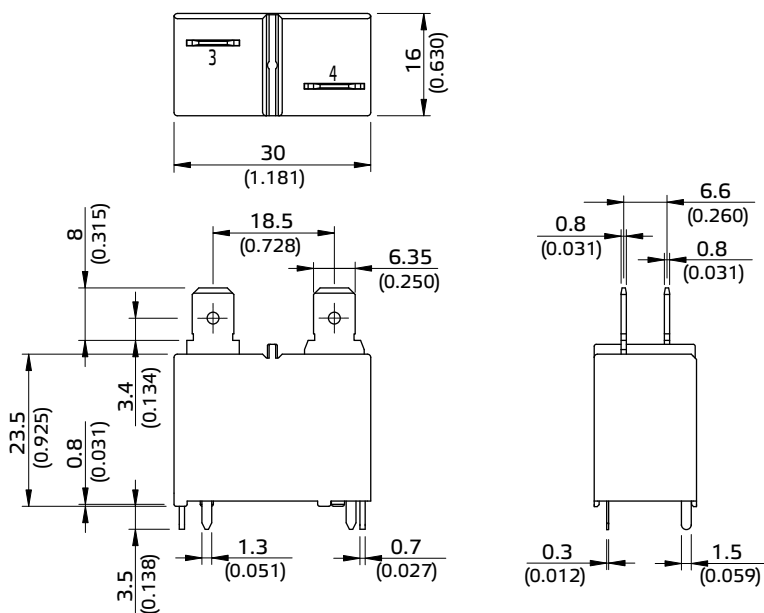
◆ 891P



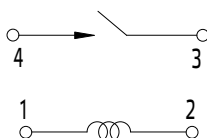


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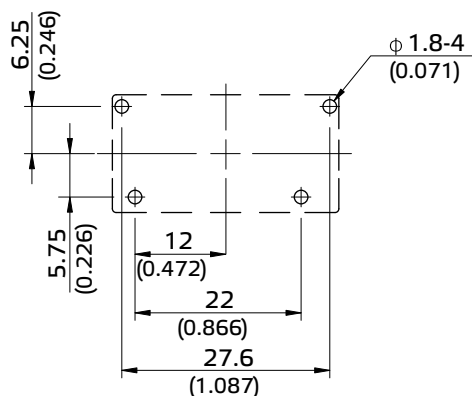
◆ 891WP



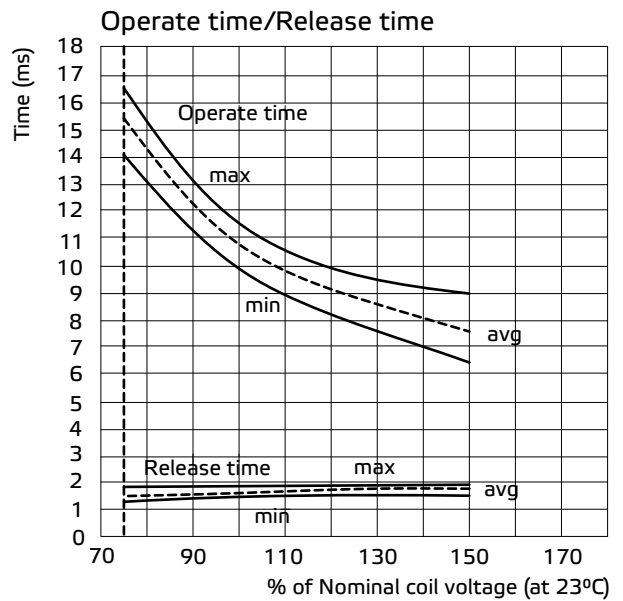
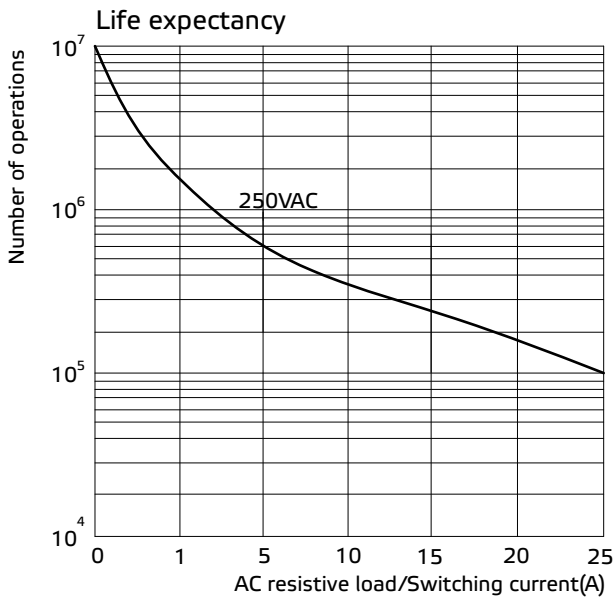
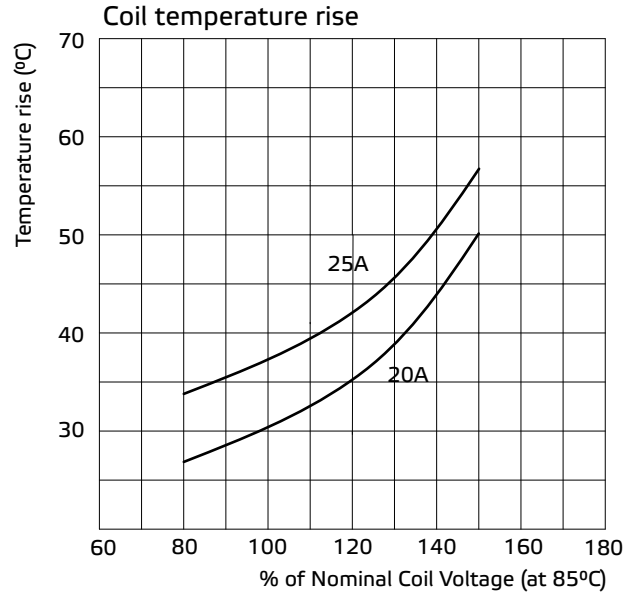
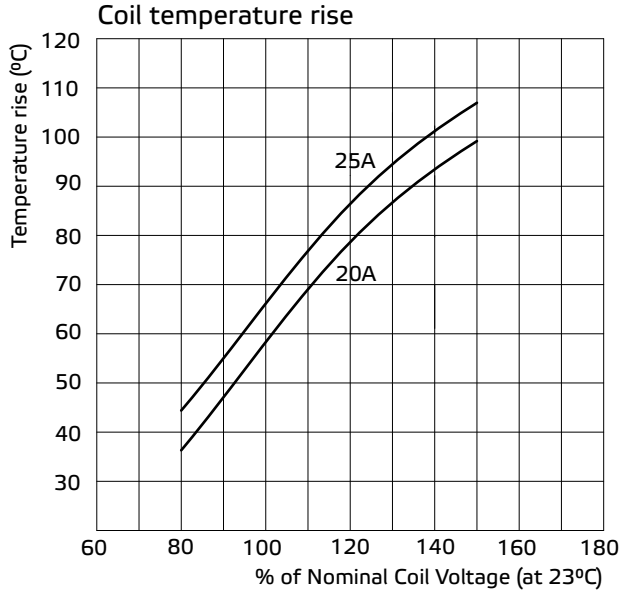
»» Wiring Diagram
 BOTTOM VIEW



»» PC Board Layout
 BOTTOM VIEW



»» Engineering Data



Disclaimer

All technical performance data apply to the relay as such, specific conditions of the individual application are not considered. Please always check the suitability of the relay for your intended purpose. We do not assume any responsibility or liability for not complying herewith. We recommend to complete our questionnaire and to request our technical service. Any responsibility for the application of the product remains with the customer only. All specifications are subject to change without notification. All rights of Song Chuan are reserved.