

821



Discontinued



>>> Features

- $\hfill \square$ Miniature 25A 250VAC Power Relays.
- ☐ UL, CSA and TUV approved.
- ☐ With and without quick terminals on top.
- □ Inductive load COS ϕ =0.7, 20A 250VAC, inrush 80A 250VAC, 400ms suitable for compressor load switching and HVAC applications.
- ☐ Comply with RoHS-Directive 2002/95/EC.

>>> Type List

Terminal style	Contact form	Designation
W (Quick terminal)	1A (SPNO)	821-W-1A-C
P (PCB terminal)	1A (SPNO)	821-P-1A-C

>>> Ordering Information

821 - W - 1A - C

1 2 3 4

3. 1A -- Single pole normally open

2. W -- With quick terminals

4. C -- Dust cover

P -- With printed circuit board wiring terminals

-- Basic series designation

>>> Contact Rating

Resistive load	25A 240VAC, 20A 30VDC
Inductive load (cos	20A 250VAC (Inrush 80A)

>>> Coil Rating (DC)

Rated	Rated current		Max. continuous		Drop out	Power consumption
voltage	±10 % at 23°C	±10 % at 23°C	voltage	voltage(Max)	voltage(Min)	at rated
(V)	(mA)	(Ω)	at 55°C	at 23°C	at 23°C	voltage
5	180	27.8				
6	150	40				
9	100	90	120 % of	75 % of	10 % of	annroy 0.0W
12	75	160	rated	rated	rated	approx. 0.9W
24	38	640	voltage	voltage	voltage	
48	19	2560				

>>> Specification

Contact material	AgSnO alloy
Contact resistance (1)	50m $Ω$ Max.

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Operate time (1)	20ms Max.		
Release time (1)	10ms Max.		
Insulation resistance (1)	100 MΩ Min. (DC 500V)		
Dielectric strength ⁽¹⁾	Between open contact : AC 1200V , 50/60Hz 1 min.		
Dielectric strength	Between contact and coil : AC 3600V , 50/60Hz 1 min.		
Vibration registance	Operating extremes	$10{\sim}50$ Hz , amplitude 1.0 mm	
Vibration resistance	Damage limits	10∼50Hz , amplitude 2.0 mm	
Shock resistance	Operating extremes	10G	
	Damage limits	100G	
Life expectancy	Mechanical	10,000,000 operations	
		(frequency 18,000 operations/hr)	
	Electrical	100,000 operations	
		(frequency 1,200 operations/hr)	
Operating ambient temperature	-25∼+55°C (no freezing)		
Weight	Approx. 27.3 g		

Note: (1) initial value

>>> Safety Approval

Certified	UL	CSA	TUV
File No.	E88991	LR90143	R 09452438

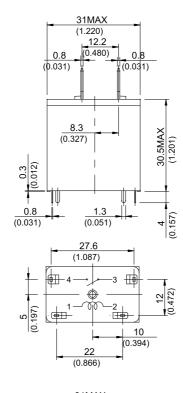
>>> Safety Approval Rating

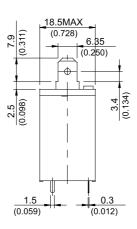
UL	CSA	TUV
25A 250VAC	25A 250VAC	25A 250VAC
20A 30VDC	20A 30VDC	20A 30VDC
1HP 125VAC	1HP 125VAC	20A 250VAC cosφ 0.7
1-1/2HP 250VAC	1-1/2HP 250VAC	12A 250VAC cos φ 0.4
TV-10	TV-10	



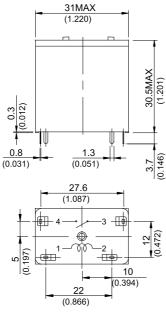
>>> Outline Dimensions

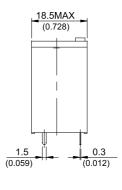
◆821-W



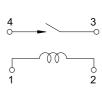


♦821-P

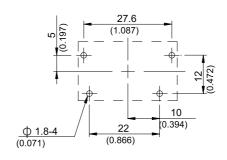




>>> Wiring Diagram BOTTOM VIEW



>>> PC Board Layout BOTTOM VIEW



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>>> Engineering Data

