

■ TYPE LIST

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

■ CONTACT RATING

Resistive load	25A 240VAC , 20A 30VDC
Inductive load (cosφ0.7)	20A 250VAC (Inrush 80A)

■ COIL RATING (DC)

Rated voltage (V)	Rated current ±10 % at 23°C (mA)	Coil resistance ±10 % at 23°C (Ω)	Max. continuous voltage at 55°C	Pick up voltage(Max) at 23°C	Drop out voltage(Min) at 23°C	Power consumption at rated voltage
5	180	27.8	120 % 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⁾	50mΩ Max.	
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.	
	Between contact and coil : AC 3600V , 50/60Hz 1 min.	
Vibration resistance	Operating extremes	10 50Hz , amplitude 1.0 mm
	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 cos ϕ 0.7
1-1/2HP 250VAC	1-1/2HP 250VAC	12A 250VAC cos ϕ 0.4
TV-10	TV-10	

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