

## FOREIGN STANDARDS

Standard	Applicable product	Part No.
UL	File no.: E122222 Ratings: Standard: 5 A, 250 VAC (10 <sup>5</sup> cycles), Pilot Duty B300 Bifurcated: 0.1 A, 30 VDC Certified products: All models	Order using the standard part number.
CSA	File no.: LR55880 Ratings: Standard: 5 A, 250 VAC, Pilot Duty B300 Bifurcated: 0.1 A, 30 VDC Certified products: All models	
TÜV	File no.: Plastic case type J9650515 Die-cast case type J9650514 Ratings: Standard for plastic case type: AC-15 2A/250V~, DC-12 1A/30V ~ Bifurcated for plastic case type: DC-12 0.1A/30V ~ Standard for die-cast case type: DC-12 1A/30V ~ Bifurcated for die-cast case type: DC-12 0.1A/30V ~ Certified products: All models except those with LED lamps	Place a CE at the end of the part number when ordering.

## SPECIFICATIONS

### 1. Ratings

Rated control voltage	Load	Standard type				Bifurcated type		
		Resistive	Lamp	Inductive	Motor		Without LED	With LED
					N.C.	N.O.		
125 V AC		5 A	1.5 A	3 A	2 A	1 A	0.1 A	—
250 V AC		5 A	1.5 A	3 A	1 A	0.5 A	—	—
8 V DC		5 A	—	1.5 A	—	—	0.1 A	—
14 V DC		5 A	—	1.5 A	—	—	0.1 A	—
24 V DC		—	—	—	—	—	—	0.1 A
30 V DC		5 A	—	1.5 A	—	—	0.1 A	—
125 V DC		0.5 A	—	0.05 A	—	—	—	—
250 V DC		0.25 A	—	0.03 A	—	—	—	—

- Notes) 1. The values above indicate steady-state current.  
 2. Parameter of inductive load: AC power factor: Min. 0.4; DC time constant: Max. 7 ms.  
 3. Lamp load generates 10 times of inrush current.  
 4. Motor load generates 6 times of inrush current.

### 2. Characteristics

Item	Type	Standard type	Bifurcated type	
			Screw terminal type	Connector type
Contact arrangement		1 Form C	1 Form C (Bifurcated contact)	
Contact resistance		Initial: Max. 15 mΩ	Initial: Max. 100 mΩ	Initial: Max. 150 mΩ
Contact material		AgCdO	Au clad Ag alloy (Cadmium free)	
Insulation resistance		Initial: Min. 100MΩ (at 500 V DC)		
Initial breakdown voltage		1,000 Vrms for 1 min. between non-consecutive terminals 1,500 Vrms for 1 min. between dead metal parts and terminals 1,500 Vrms for 1 min. between ground and terminals		
Shock resistance	Free position	Max. 98 m/s <sup>2</sup> {10 G}		
	Full operating position	Max. 294 m/s <sup>2</sup> {30 G}		
Vibration resistance		10 to 55 Hz (Double amplitude for max. 1.5 mm)		
Mechanical life		10 <sup>7</sup> (at 120 cpm)		
Electrical life		5 × 10 <sup>5</sup> (at 20 cpm, 5 A 250 V AC resistive load)	5 × 10 <sup>5</sup> (at 20 cpm, 0.1 A 125 V AC resistive load)	
Ambient temperature		-10 to +80°C +14 to +176°F		
Ambient humidity		Max. 95% R.H.		
Max. switching frequency		Max. 120 cpm		

### 3. Performance data for EN60947-5-1

Item	Plastic case Standard	Plastic case Bifurcated	Die casting case Standard	Die casting case Bifurcated
Rated insulated voltage	250V AC	250V AC	30V DC	30V DC
Impulse withstand voltage	2.5kV	2.5kV	1.5kV	1.5kV
Switching excess voltage	2.5kV	0.8kV	0.8kV	0.8kV
Rated closed thermocurrent	5A	1A	5A	1A
Conditional short-circuit current	100A	100A	100A	100A
Short-circuit protection	10A Fuse	10A Fuse	10A Fuse	10A Fuse
Protective construction	IP64 (switch) IP54 (terminal)	IP64 (switch) IP54 (terminal)	IP67	IP67
Degree of contamination	3	3	3	3