

Bulletin 700-HB Square Base Relay

Specifications

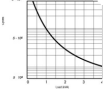
Cat. No. 700-HB...							
Electrical Ratings							
Pilot Duty Rating†		NEMA B300					
Rated Thermal Current (I_{th})		15 A - 120V, 240V					
Rated Insulation Voltage (U_i)		250V IEC-300V UL/CSA					
Contacts	Inductive	Make			Break		Hp
		▶ ◀			◀ ▶		
		2 -Pole	3 -Pole	2 -Pole	3 -Pole		
	120V AC	60 A	30 A	6 A	3 A	3/4	
	240V AC	30 A	15 A	3 A	1.5 A	2	
	General Purpose	15 A, 240V AC					
	Resistive	15 A, 30V DC					
Min. Low Energy Permissible Load		1000 mW (10V, 10 mA)					
Permissible Coil Voltage Variation		80...110% of Nominal Voltage at 50 Hz					
		80...110% of Nominal Voltage at 60 Hz					
		80...110% of Nominal Voltage at DC					
Coil Consumption ±10%	AC Coils	50 Hz			60 Hz		
	Inrush	3.3 VA			2.85 VA		
	Sealed	2.2 VA			1.9 VA		
	DC Coils	1.3 W					
Max. Allowable Leakage		25% of VA					
		10% of W					
Max. Contact Resistance		50 mΩ					
Design Specification/Test Requirements							
Electrical							
Dielectric Withstand Voltage							
Pole-to-Pole		2500V					
Contact to Coil		4000V					
Mechanical							
Degree of Protection (Open Type) IEC 529		IP 40					
Mechanical Life Cycles (AC/DC)		> 10 x 10 ⁶ /30 x 10 ⁶					
Switching Frequency Operations		3600/HR					
Coil Voltages		See Overview/Product Selection					
Operating Time (ms)	Pickup	20 ms					
	Dropout	4 ms					
Maximum Operating Rate		4 Ops/s					
Vibration	Endurance	5 G					
	Operational	1.5 G					
Shock	Endurance	50 G					
	Operational	15 G					
Environmental							
Temperature	Operating	AC/DC			-40...+70 °C		
	Storage	AC/DC			-40...+100 °C		
Altitude		2000 m (6560 ft)					
Construction							
Insulating Material		Molded High Dielectric Material					

Enclosure	Transparent Dust Cover
Contact Material	AgCdO
Terminal Markings on Socket	In accordance with EN50 0005
Sockets	700-HN153, -HN154
Certifications	cURus Recognized (File No. E3125, Guide NLDX2/NLDX8), cULus Listed when used with Bulletin 700-HN sockets noted above (File No. E3125, Guide NLDX/NLDX7), CE Marked, CSA Certified, UR Certified (File No. 229473)
Standards	UL508, CSA C22.2 No. 14, EN 61810-1

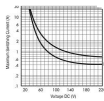
* See Performance Data.

‡ NEMA Rating Chart is in publication 700-SG003*

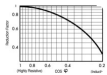
Technical Data



Contact life vs AC1 load at 600 cycles/h.



Breaking capacity for DC1 load at 600 cycles/h. Load applied to 1 contact. A = for N.O. types B = other types



Load Reduction factor vs $\cos f$