

TYPE 590



FEATURES:

- Meets UL508 & UL873 spacing.
- UL Class F insulation.
- Up to 30A switching in SPST type and 20A in SPDT.
- Sealed type available.
- Ideal for HVAC applications.
- Increased through-air spacing available (1/4").



CONTACT RATING				
Load type	1A	1B	1C	
			NO	NC
Resistive	30A/277VAC ,20A/30VDC	15A/277VAC, 30VDC	20A/277VAC/30VDC	10A/277VAC/30VDC
Motor	2HP/250VAC 1HP/125VAC	1/2HP/250VAC 1/4HP/125VAC	2HP/250VAC 1HP/125VAC	1/2HP/250VAC 1/4HP/125VAC
Gen.Use	30A/277VAC ,20A/30VDC	15A/277VAC/30VDC	20A/277VAC/30VDC	10A/277VAC/30VDC
Pilot duty	720VA/240VAC 800VA/125VAC	360VA/240VAC 290VA/125VAC	470VA/240VAC 470VA/125VAC	360VA/240VAC 290VA/125VAC

COIL DATA (DC)						
Rated Voltage (V)	Rated Current ±10% at 25°C (mA)	Coil Resistance ±10% at 25°C (Ω)	Max. Continuous Voltage at 25°C	Pickup Voltage (Max) at 25°C	Dropout Voltage (Min) at 25°C	Power Consumption at Rated Voltage
5	185	27	110% of rated voltage	75% of rated voltage	10% of rated voltage	Approx. 0.93 W
6	150	40				
9	93	97				
12	77	155				
24	36	660				
48	18	2560				
110	8	13450				

PART NUMBERING SYSTEM					
Relay Type	Enclosure & Terminals	Contact Arr.	Coil Voltage	Contacts	Standard or Special
590	1–Open 2–Dust Cover 3–Flux Tight 4–Epoxy Sealed	1–SPDT 4–SPST, NO 5–SPST, NC	A–6VDC B–12VDC C–24VDC D–48VDC E–5VDC F–110VDC G–9VDC	2–Standard	00–Standard, 5 Pin F0–Class F, 5 Pin S0–6 Pin SF–Class F, 6 Pin A1–Z9 Special

Example: 590-11A200

Stock item: 590-21B200, 590-21C200, 590-24B200, 590-24C200, 590-41B200, 590-41B200, 590-44B200, 590-44C200

SPECIFICATIONS	
Contact resistance	50 m Max. (initial value)
Operate time	15 mS Max.
Release time	10 mS Max.
Insulation resistance	100 M Min. (DC 500V)
Dielectric strength	Between open contacts: AC 1500 Vrms. Between contact and coil: 1500Vrms, 2500Vrms.
Vibration resistance	Damage limits & Operating extremes:10–55 Hz, amplitude 1.5 mm
Shock resistance	Damage limits: 20g Operating extremes: 10g
Life expectancy for mechanical	10,000,000 operations (frequency 18,000 operations/hr)
Life expectancy for electrical	100,000 operations (frequency 1,200 operations/hr)
Operating temperature	-55~+85 °C (no freezing)
Weight	Approx. Open type 22g, with cover 27g

