



Procurement Specifications for

## **Model TR-200**

Flash Transfer Relay

The model TR-200 Flash Transfer Relay is designed to meet or exceed NEMA Standard TS 2-2003. Model TR-200 Flash Transfer Relays are constructed with transient suppressed half-wave rectified coil to provide chatter free operation in brownout conditions down to 89 VAC. The rectified coil provides lower power consumption than conventional AC coils. A rear mounted eight pin polarized connector mates with a Cinch-Jones 2408SB socket. It provides two single-pole, double throw contacts and mount on an eight-pin spade base.

**Operating voltage range:** 89 to 135 VAC RMS at 47Hz to 63 Hz.

**Operating temperature range:** -40° to +180° F (-40° to 82° C)

**Humidity:** 5% to 95%.

**Operating humidity range:** 5% to 95% (non-condensing)

**Coil specifications:**

**Maximum pull-in voltage:** 85 VAC

**Minimum dropout voltage:** 25VAC

**Nominal power:** 4VA at 120 VAC

**Pickup and Drop out time:** < 45 milliseconds

**Contact material:** Silver Alloy

**Contact ratings:**

30 amps resistive at 120/240 VAC

20 Amps resistive at 28 VDC

20 Amps Tungsten at 120 VAC

175 Amps one cycle surge RMS at 120 VAC

100,000 operations at rated load

Contact resistance is less than 100 milliohms

**Dielectric strength:**

**Across open contacts:** 600V RMS

**Contact to coil:** 1500V RMS

**Contact to frame:** 1500V RMS

**Leakage current:** < 1mA

**LED provides visual indication of coil voltage**

**Orientation:** Proper operations in all orientations.

Enclosure: Clear polycarbonate

**Dimensions:** 2.47" (6.27 cm) High x 1.85" (4.70 cm) Wide x 3.90" (9.91 cm) deep (including connector)



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**Connector:** Mates with a Cinch-Jones 24008SB or equivalent. Connector pins are brass with cadmium platted to a thickness of 6-8 micro-meter. Key is solid or filled.

**Solid polarizing pin**

**Connector Pin Out:**

Pin	Function
1	Printed Circuit Board
2	Printed Circuit Board
3	Circuit 1 Normally Closed
4	Circuit 2 Normally Closed
5	Circuit 1 Common
6	Circuit 2 Common
7	Circuit 1 Normally Open
8	Circuit 2 Normally Open