

**SERIES 19**

2" Diameter, 15 Amp

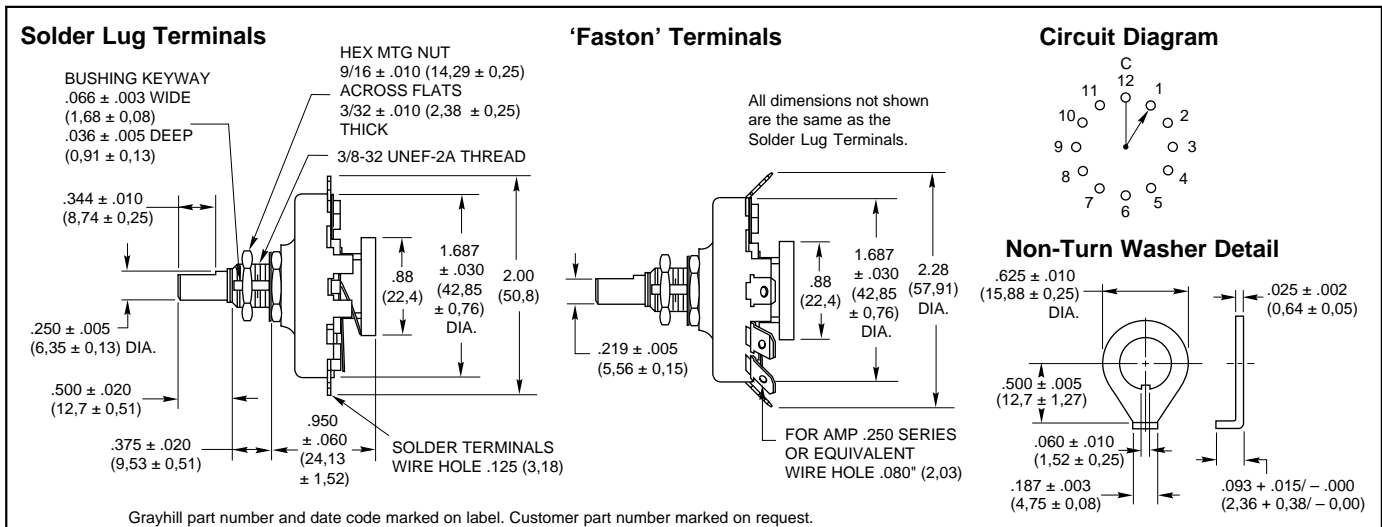


**FEATURES**

- UL Recognized
- Rugged Construction
- Choice of Termination



**DIMENSIONS** In inches (and millimeters)



**SPECIFICATIONS**

**Electrical Rating**

**Rated:** UL Recognition: File Number E35289  
15 Amps, 120 Vac, non-inductive load.  
One Amp, 120 Vdc, non-inductive load.  
Additional Grayhill Rating: 7.5 Amps, 220 Vac, non-inductive load.

This rating is based on the following criteria:  
Overload—50 operations at 125% rated ac load and 150% rated DC load.

Endurance—6000 operations at rated load with 900 Vac dielectric strength before and after test.  
Temperature Rise—Not to exceed 30°C when carrying rated ac load after endurance test.  
Contacts will carry 20 Amps at 115 volts AC with 30°C maximum temperature rise.

**Contact Resistance:** (Measured at 2 Vdc and approximately 100 mA) for new switch approximately 10 milliohms.

**Insulation Resistance:** Approximately 100,000 Mohms. Between mutually insulated parts.

**Voltage Breakdown:** Approximately 2500 Vac between mutually insulated parts.

**Materials and Finishes**

- Rotor Contact:** Silver alloy
- Stator Contact:** Silver alloy
- Shaft:** 303 Stainless steel
- Stop Rivet:** Steel, cadmium-plated
- Mounting Bushing:** Brass, cadmium-plated
- Base and Drive Hub:** Heat resistant, electrical grade phenolic.

- Detent Mechanism:** Brass, silver-plated
- 'Faston' Terminal:** Brass, silver-plated
- Solder Terminal:** Brass, silver-plated
- Mounting Hardware:** One mounting nut 9/16" across flats, 3/32" thick and one non-turn washer (see detail) are supplied with each switch.

**Additional Characteristics**

- Single Pole, Single Deck:** 2 to 11 positions plus common 30° Indexing.
- Contacts:** Non-shorting type
- Stops:** A rivet provides the fixed stop on all switches. Minimum number of positions is 2, and maximum is 11. Terminal 12, the common, is isolated from rotation.
- Rotational Torque:** 30 to 75 ounce-inches on a new switch. Approximately 22 ounce-inches after 25,000 cycles of operation.
- Contact Force:** Approximately 12 ounces

**ACCESSORIES**

**Screw Terminal Adapter**  
Spring loaded, plug-in adapters for 'Faston' Terminals provide excellent mechanical fit and electrical contact. Adapter material is brass tinned. The terminal adapters are available with a 6-32 thread (-1) or 8-32 thread (-2). A 1/4" panhead screw is provided as part of the adapter.

- Part No. SC906-1 .....6-32 Thread
- Part No. SC906-2 .....8-32 Thread



**Non-Turn Washer**

Brass, cadmium-plated washer, detailed above may be purchased as a separate item.  
Part No. 19C1014.

**Control Knobs**

See page E-39.

**ORDERING INFORMATION**

Part Numbers: Designate as follows, using the 2 digits after the dash to indicate the number of positions.

**For Faston Terminal:**  
Use 19101-02UL through 19101-11UL

**For Solder Terminal:**  
Use 19001-02UL through 19001-11UL

**Specials:** Not available through Distributors. For special shafts, bushings, etc. contact Grayhill.

**Available from your local Grayhill Distributor.** For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.