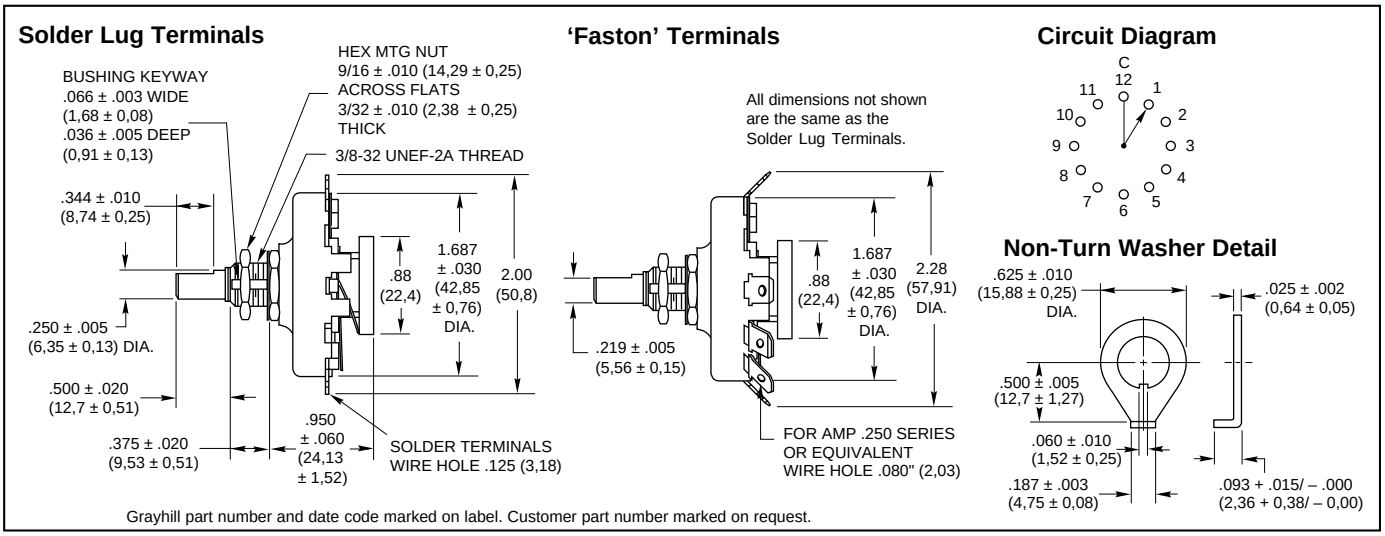
SERIES 19
2" Diameter, 15 Amp

FEATURES
- UL Recognized
- Rugged Construction
- Choice of Termination

DIMENSIONS In inches (and millimeters)



Grayhill part number and date code marked on label. Customer part number marked on request.

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 tin-plated. 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 I-57.

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.

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