

# SERIES 58 Single Deck, Antistatic



## **LOCK FEATURES**

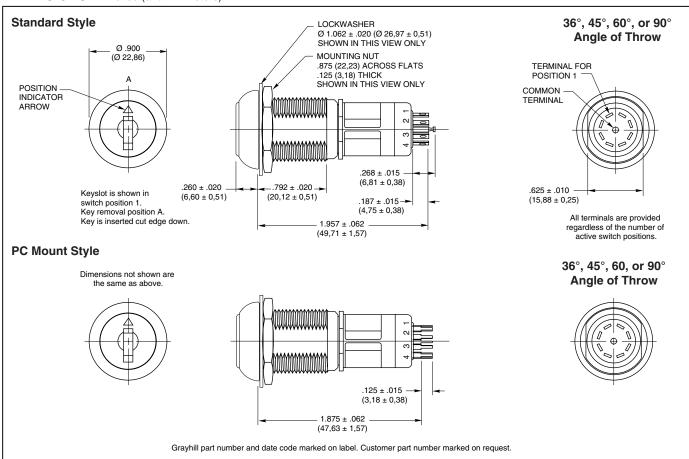
- Minimum Space Behind Panel
- 15,000 Vdc Static Protection
- 5 Tumbler-Plate Security
- In-Panel Key Recoding

## **SWITCH FEATURES**

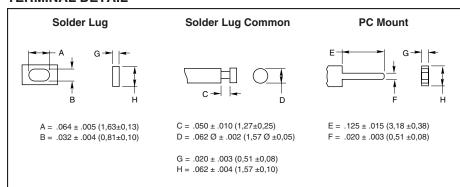
- Economical
- Solder Lug or PC Mount
- 36°, 45°, 60°, or 90° Throws
- 1 or 2 Poles Per Switch
- Up to 10 Positions for 1 Pole
- 200 mA for 25,000 Cycles



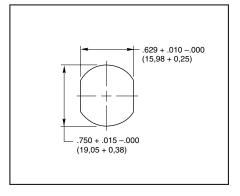
## **DIMENSIONS** In inches (and millimeters)



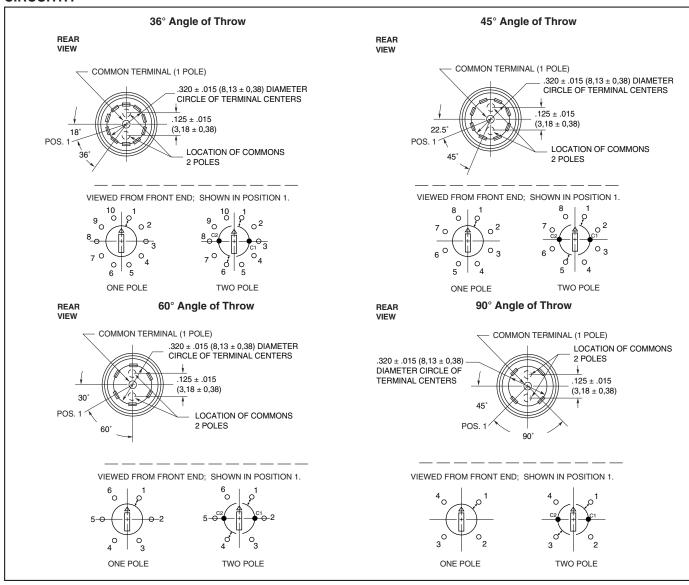
# **TERMINAL DETAIL**



# RECOMMENDED PANEL CUT



## **CIRCUITRY**



## **LOCK SPECIFICATIONS**

#### **General Characteristics**

**Mounting:** By bushing, nut and lockwasher **Keying:** All locks keyed alike except by special order.

**Orientation of Keylock Switch:** Lock flats on both sides with key upright (cut side down) in position 1.

### **Key Removals:**

36° Throw Switch At every position or

At 0° & 180°

45° Throw Switch At every position or

At 0°, 90°, 180°, 270°

60° Throw Switch At every position or

At 0°, 180°

90° Throw Switch At every position or

At 0°, 180°

Optional pulls Contact Grayhill

#### **Materials & Finishes**

Keys: Brass; 2 supplied

Lock Barrel & Plug: Zinc, clear chromate

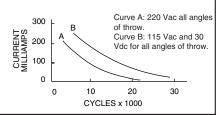
**Lockwasher:** Steel, tin zinc plated **Mounting Nut:** Steel, nickel-plated

Tumbler Plates: Brass

# **SWITCH SPECIFICATIONS**

## **Electrical Characteristics**

Chart is shown for non-shorting contacts and resistive load and for the life limiting criteria indicated below. The data for the curve was measured at sea level, 25°C and 68% relative humidity. Contact Grayhill for more information if any of the following is true: life limiting criteria are more critical than those listed; more cycles of operation are required; a larger make and break current is required; the operating environment includes elevated temperatures or reduced pressures.





## **SWITCH SPECIFICATIONS** Continued

Contact Resistance:

 $\begin{array}{ll} \mbox{Initially:} & \mbox{less than 10 m} \Omega \\ \mbox{End of life:} & \mbox{less than 50 m} \Omega \end{array}$ 

Insulation Resistance: (Between mutually

insulated parts)

Initially:  $50,000 \text{ M}\Omega$ Minimum:  $10,000 \text{ M}\Omega$ 

**Breakdown Voltage:** (Between mutually insulated parts) more than 600 Vac

**Life Expectancy:** Per chart; cycle is 1 rotation thru all active positions plus a full

return.

Carry Current: 6A; maximum temperature

rise 20°C

**Anti-Static Voltage:** Anti-static types tested to withstand 15,000 Vdc

**Mechanical Characteristics** 

**Switching Mode:** Shorting (make before break) or non-shorting (break before make) as limited

by the Choices chart

Type of Contact: Wiping

**Number of Terminals:** All switches are provided with the full circle of terminals regardless of the

number of active positions

Stop Strength: 1.70 Nm maximum (15.0 in-lbs)

Switching Torque: 8 to 16 in-ozs

Materials and Finishes
Switch Base: Thermoset plastic

Switch Housing: Nylon Detent Rotor: Nylon

**Detent Balls:** Steel, nickel-plated **Detent Springs, and Contact Springs:** 

Stainless steel

Common Ring: Brass, gold plate over silver

plate

Terminals: Brass, gold over silver and

nickel plate

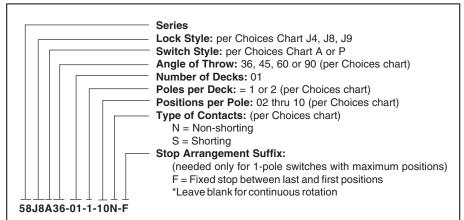
Rotor Contact: Precious metal, gold alloy

#### **CHOICES AND LIMITATIONS**

Lock Style and Description*	Switch Style and Description	Angle of Throw	No. Of Decks	Poles/ Deck	Positions Per Pole**	Shorting or Non-Shrtg.
	Series 58J Switches					
J4: Standard–Key pulls at Position 1 and at 90 Degree Increments	<ul><li>A = Standard, Solder Lugs</li><li>P = Standard, PC Mount</li></ul>	45°	1	1 2	02 to 08 02 to 04	N or S N or S
J8: Standard–Key Pulls at Each Position	A = Standard, Solder Lugs P = Standard, PC Mount	36°	1	1 2	02 to 10 02 to 05	N or S N or S
		45°	1	1 2	02 to 08 02 to 04	N or S N or S
		90°	1	1 2	02 to 04 02	N N
J9: Standard–Key Pulls at Position 1 and at 180 Degrees	<ul><li>A = Standard, Solder Lugs</li><li>P = Standard, PC Mount</li></ul>	36°	1	1 2	02 to 10 02 to 05	N or S N or S
		45°	1	1 2	02 to 08 02 to 04	N or S N or S
		60°	1	1 2	02 to 06 02 to 03	N N
		90°	1	1 2	02 to 04 02	N N

<sup>\*</sup>Standard Keylock has anti-static protection. All keylock versions available without anti-static protection, with a reduced overall body length. Contact Grayhill for more information.

## ORDERING INFORMATION



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

Rotary

<sup>\*\*</sup>For single pole switches with maximum positions, specify continuous rotation or fixed stop when ordering.