

**SERIES 58** Single Deck, Antistatic

### LOCK FEATURES

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

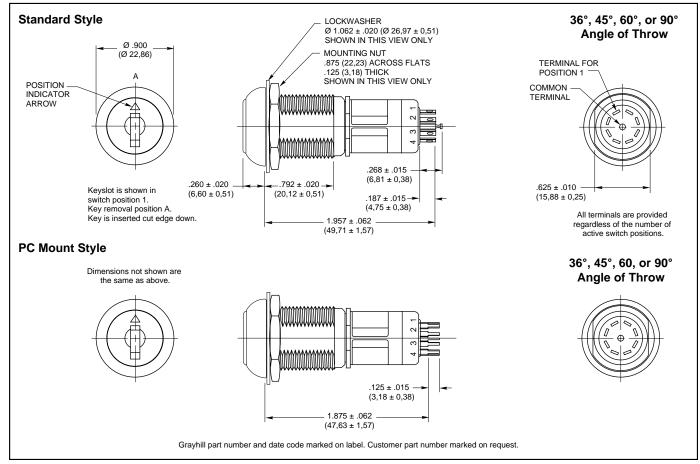
# SWITCH FEATURES

Economical

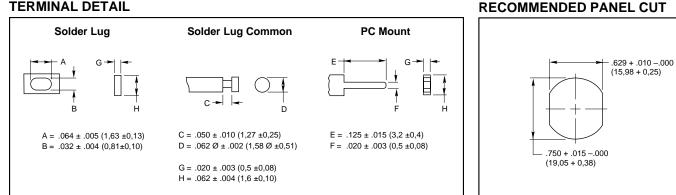
- Solder Lug or PC Mount
- 36°, 45°, 60°, or 90° Throws
- 1 or 2 Poles Per Switch
- Up to 10 Positions for 1 Pole
- 200 mA for 25,000 Cycles







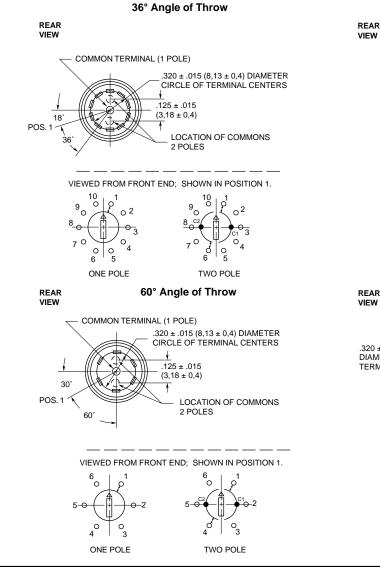
#### **TERMINAL DETAIL**

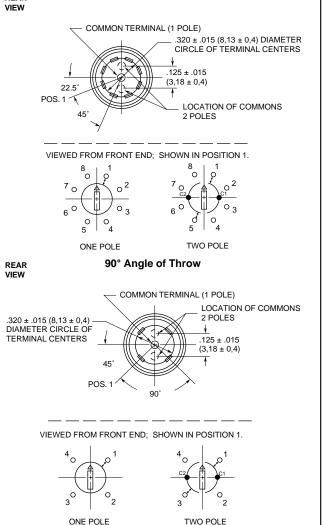


**Rotary Switches** 



# CIRCUITRY





45° Angle of Throw

# 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					
Ontional mulla	At 0°, 180°					
Optional pulls	Contact Grayhill					

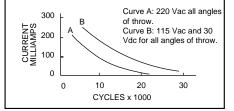
# Materials & Finishes

Keys: Brass; 2 supplied Lock Barrel & Plug: Zinc, clear chromate Lockwasher: Steel, cadmium-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: Initially: less than 10 mΩ End of life: less than 50 mΩ	Anti-Static Voltage: Anti-static types tested to withstand 15,000 Vdc	Materials and Finishes Switch Base: Thermoset plastic Switch Housing: Nylon
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Mechanical Characteristics Switching Mode: Shorting (make before break) or non-shorting (break before make) as limited	Detent Rotor: Nylon Detent Balls: Steel, nickel-plated Detent Springs, and Contact Springs:
Minimum: ≥ 10,000 MΩ <b>Breakdown Voltage:</b> (Between mutually insulated parts) more than 600 Vac Life Expectancy: Per chart; cycle is 1 within them entities the provided of the second se	by the Choices chart <b>Type of Contact:</b> Wiping <b>Number of Terminals:</b> All switches are provided with the full circle of terminals regardless of the	Stainless steel Common Ring: Brass, gold plate over silver plate Terminals: Brass, gold over silver and
rotation thru all active positions plus a full return. <b>Carry Current</b> : 6A; maximum temperature rise 20°C	number of active positions <b>Stop Strength:</b> 1.70 Nm maximum (15.0 in-lbs) <b>Switching Torque</b> : 8 to 16 in-ozs	nickel plate Rotor Contact: Precious metal, gold alloy

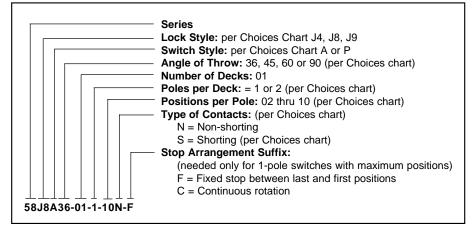
# **CHOICES AND LIMITATIONS**

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 8 02 to 04	N or S N or S			
J8: Standard–Key Pulls at Each Position	<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			
		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			

\*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.

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

# **ORDERING INFORMATION**



Available from your local Grayhill Distributor. For prices and discounts, contact a local Sales Office in CHINA(Beijing): Fax: (010)6851-5578