## SERIES 44L

## High Current, 5 Amp

## LOCK FEATURES

- 8-Pin, Round Key Security
- Options for Flat Keys, Special

Keying, and Key Removals

## SWITCH FEATURES

- High, 5 Amp Current Switching
- $45^{\circ}$, Up to 8 Poles Per Switch
-25,000 Cycles of Operation
- RoHS Compliant

DIMENSIONS In inches (and millimeters)


## RECOMMENDED PANEL CUT



## LOCK SPECIFICATIONS

Keying: Each lock is keyed differently Key Removal: All positions ( $45^{\circ}$, etc) Special Options: Flat key with $90^{\circ}$ or $180^{\circ}$ increment key removals; 7 thru 12 decks

## LOCK MATERIALS AND FINISHES

Bushing and Knurled Spanner Nut:
Aluminum, black anodized
Keying Washer, Cover Support Plate,
Shaft Extension: 302 Stainless steel
Internal and External Lockwashers: Brass, tin/zinc-plated or stainless steel.
Keys, Cylindrical: Stainless steel; 2 supplied

CHOICES AND LIMITATIONS

| Style | Description | Angle of Throw | No. Of Decks | Poles/ Deck | Positions <br> Per Pole | Shorting or Non-Shrtg. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series 44 Switches |  |  |  |  |  |  |
| L | Standard, Solder Lugs | $45^{\circ}$ | 01 to 06 01 to 03 01 or 02 01 or 02 | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \end{aligned}$ | 02 to 08 02 to 04 01 or 02 01 or 02 | N or S <br> N or S <br> N <br> N |

Keylock Rotary Switches

## SWITCH SPECIFICATIONS

## Electrical Characteristics Industrial Grade Switch

## Switching Current and Life

The load-life values indicate the number of cycles of operation expected for the voltage, current and type of load. End of life is defined using the resistance and breakdown failure criteria listed below.

| 5 A at | 115 Vac, resistive |
| :--- | :--- |
| 1 A at | 6 to 28 Vdc, resistive |
| 2 A at | 115 Vac, inductive |

Cycle of Operation: $360^{\circ}$ rotation plus a $360^{\circ}$ return

Test Conditions: $25^{\circ} \mathrm{C}, 68 \%$ relative humidity, atmospheric pressure
Life Expectancy:
With loads above: 25,000 cycles
Without load: 100,000 cycles
Contact Resistance:
End of life: less than $20 \mathrm{~m} \Omega$
Insulation Resistance:
(Between mutually insulated parts)
Initially: $\quad 50,000 \mathrm{M} \Omega$

## Breakdown Voltage:

(Between mutually insulated parts)
Initially: $\quad 1,000$ Vac
End of life: $\quad 500$ Vac
Carry Current: 10A; maximum temperature rise $20^{\circ} \mathrm{C}$

## Mechanical Characteristics

## Switching Mode:

$45^{\circ}$, 1 or 2 poles: Shorting or non-shorting $45^{\circ}, 3$ or 4 poles: Non-shorting
Type of Contact: Wiping contacts
Contact Force: greater than 150 g
Number of Terminals: Switches are provided with only the number of terminals needed
Stop Strength: greater than 15 in-lbs (1.70 Nm)
Switching Torque: 8-115 in-ozs (28 to 230 mNm ), depending on the number of poles, number of decks, and angle of throw

## Additional Characteristics

Switches of 6 or more decks have longer studs with extra mounting nuts for recommended double end mount

## Materials and Finishes: Switch

Switch Bases: Melamine per MIL-M-14, 4 Switch Bases:
Industrial Grade: Melamine per MIL-M-14 Military: Diallyl per MIL-M-14
Cover, Deck Separators, End Plate, and
Rotor Mounting Plate: Phenolic per
MIL-M-14
Shaft, Shaft Extension, Stop Arm, Stop
Washers, Rear Support Plate, Cover
Plate, Retaining Ring, Studs, Nuts:
Stainless steel
Detent Balls: Steel, nickel-plated
Detent Springs: Tinned music wire Rotor Contact, and Stator (Base) Contacts: Silver alloy
Common Plate, and Common Terminal: Brass, $\quad 300 \mu$ inch, $(7.6 \mu \mathrm{~m})$ silver plate Base Terminals: Brass, tin plated

## ORDERING INFORMATION



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

