## SERIES 5000

## 1" Diameter, 1 Amp, .

 470" Behind Panel
## FEATURES

- High Quality at a Low Price
- High Contact Force Provides Stable Electrical and Mechanical Operation
- Proven Reliability in Thousands of Applications


DIMENSIONS in inches (and millimeters)


## SPECIFICATIONS

## Electrical Rating

Rated: To make and break the following loads: 1 amp at 115 Vac resistive; 0.5 amp at 220 Vac resistive; $1 / 4 \mathrm{amp}, 115 \mathrm{Vac}$ inductive; $1 / 50$ amp, 115 Vdc inductive, $1 / 10 \mathrm{amp}, 6$ to 28 Vdc inductive; $1 / 10 \mathrm{amp}, 115 \mathrm{Vdc}$ resistive; 1 amp, 6 to 28 Vdc resistive; to carry 10 amps continuously.
Contact Resistance: 10 milliohms initial. After 25,000 cycles of operation 20 milliohms maximum.
Insulation Resistance: 50,000 Mohms
minimum initially
Voltage Breakdown: 1,000 Vac (500 Vac, or better after most environmental tests).
Life Expectancy: 100,000 mechanical cycles of operation normally.
NOTE: Actual life is determined by a number of factors, including electrical loading, rate of rotation, and environment, as well as maximum contact resistance, minimum insulation resistance, and minimum voltage breakdown required at the end of life.

## Materials and Finishes

Switch Base: Melamine per MIL-M-14 (ASTM-D-5948)
Cover, Stop Washers, Bushing: Brass, tin/ zinc-plated

Mounting Nut: Brass, tin/zinc-plated or stainless steel
Retaining Rings, Stop Arms, and Thrust Washers: Stainless steel
Shaft: Stainless steel
Terminals (except common): Brass, tin plated
Rotor Contact: Phosphor bronze, silver-plated .0003" minimum
Stator (Base) Contact: Brass, silver-plated .0003" minimum
Common Plate: Brass, silver-plated .0003" minimum
Rotor Mounting Plate: Nylon fabric-based laminated Phenolic per MIL-T-1 5047.

## Additional Characteristics

Stop Strength: 12 in-lbs
Rotational Torque: 12 in-ozs.
Contacts: Shorting or non-shorting wiping contacts with over 500 grams contact force. Shaft Flat Orientation: Opposite point of contact (See circuit diagram.)
Environmental: These switches have passed the following environmental testing: Altitude and temperature; 100 hour salt spray; Vibration 10 to 500 cps; Shock 30-G; Humidity; Fungus.
Detent: A formed spring operating against a formed wave washer.

## STANDARD OPTIONS

## Special Terminals

Not available through distributors.

## ORDERING INFORMATION

The Series 5000 switches are single deck, one pole switches of two to 10 positions. Ten position switches have continuous rotation. Ten position fixed stop switches are available by special order.

The part number is 05001-XX with the number of positions required ( 02,03 , etc.) listed in place of the XX. Complete part number by adding N for non-shorting contacts or S for shorting contacts.

## Available from your local Grayhill

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

## Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery \& Lifecycle Information:

## Grayhill:

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05001-03N 05001-04N 05003-02N 05003-05N 05001-04S 05004-03N 05001-05N 05001-10N 05001-06S
05004-02N 05002-07N 05001-07N 05003-03N 05001-02N 05001-03S 05001-08S 05001-09N 05001-10S 05001-
07S 05001-02S 05001-06N 05001-05S 05003-04N 05001-08N 05001-09S 05002-02N 05003-10N 05002-03N
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05002-10N

