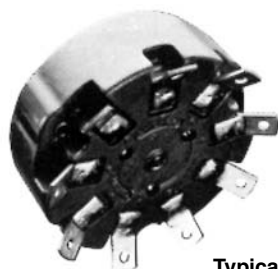


# Power Tap Switches

## High-current, Non-shorting Type

Model 711



Typical  
ceramic style



Typical  
tandem model

## SPECIFICATIONS

### Material

**Body:** Ceramic, arc-proof (models 212, 312, 412, 608). Compression Molded Polyester (model 111). Melamine Phenolic (model 711)

**Contacts:** Silver alloy. Common contact is rounded for assured seating. Self-cleaning with built in wiping action.

**Terminals:** Soldering. 711 also accepts quick connectors; 412, #10 screws; 608, 0.25" bolts.

### Mounting

**Model 711:** Using 3/8-32 bushing for 1/8" thick maximum panel. Four non-turn lug positions are possible on the single, unen-closed switch. Recesses in body of switch permit positioning of non-turn washer at "12, 3, 6 and 9 o'clock." 3/16" hole for non-turn washer. Shaft 1/4"

**Model 111:** For 1/4" panel, maximum, using 3/8-32 bushing and hex nut. A 3/16" hole is required for the non-turn washer. Shaft 1/4"

**Model 212:** Using 3/8-32 threaded bushing and hex nut. A 5/32" hole is required for the non-turn pin. Shaft 1/4"

**Model 312:** For 1/4" panel, maximum, use three 10-32 flat-head machine screws 3/8" long. Shaft 1/4"

**Model 412:** For 1/4" panel, maximum, use three 10-32 flat-head machine screws 3/8" long. A 5/16" hole in panel is required for shaft.

**Model 608:** For 1" panel, maximum, three flat-head machining screws 1/4-20, 1/4" long. Drill a 7/16" hole in panel for shaft. Shaft 3/8"

**NOTE:** Since all tap switches are electro-mechanical devices, they are subject to wear and, therefore, have a finite life.

| Model | Rating (AC) | Rating (DC)* | Max. no. of taps | Overall Diameter (max., in./mm) | Depth behind panel (in./mm) |                 |                 | Shaft Torque     |
|-------|-------------|--------------|------------------|---------------------------------|-----------------------------|-----------------|-----------------|------------------|
|       |             |              |                  |                                 | single                      | 2 in tandem     | 3 in tandem     |                  |
| 711   | 7A 125V     | 7A 20V       | 11               | 1.56 / 39.6                     | 13/16 / 20.6                | 125/32 / 45.2   | 215/32 / 62.7   | 7-12 oz.-in.     |
| 111   | 15A 125V    | 15A 20V      | 11               | 2.19 / 56                       | 1 1/8 / 28.7                | 2 3/4 / 69.9    | —               | 1.5-3.8 in.-lbs. |
| 212   | 20A 150V    | 20A 20V      | 12               | 2.25 / 57                       | 1 3/4 / 44.5                | 4 3/16 / 106.4  | 6 3/16 / 157.2  | 3-7 in.-lbs.     |
| 312   | 30A 300V    | 30A 20V      | 12               | 3.31 / 84                       | 2 1/4 / 57.2                | 4 5/8 / 117.5   | 7 / 177.8       | 3-7 in.-lbs.     |
| 412   | 50A 300V    | 50A 20V      | 12               | 4.25 / 108                      | 2 7/16 / 61.9               | 5 1/32 / 127.8  | 7 5/8 / 193.7   | 3-8 in.-lbs.     |
| 608   | 100A 300V   | 100A 20V     | 8                | 6.25 / 159                      | 3 5/16 / 84.1               | 6 13/16 / 173.0 | 10 5/16 / 261.9 | 25-35 in.-lbs.   |

\*non-inductive load

All dimensions for reference only; consult factory for details.

Ohmite power Tap Switches (high power rotary switches) are constructed to provide dependable, convenient operation.

All Ohmite tap switches, from 15 to 100 amps, have ceramic arc-proof bodies and metal alloy contacts. Their all-soldered and all-riveted construction assures mechanical and operational integrity. Even the smallest Ohmite Tap

Switch, rated at 7 amps, has a reinforced non-metal body and solid metal alloy contacts. These units feature high current handling capability in a small package.

## FEATURES

- "Slow-breaking, Quick-make" action proved best for switching AC current.
- Non-shorting type disconnects previous circuit before establishing contact for succeeding tap.

- Ceramic and metal construction provides resistance to arcing, burning and charring.
- Tandem assemblies available as standard models.
- UL listed for models 111, 212, 312 and 412
- RoHS compliant product available Jan. 2006 Add "E" suffix to part number to specify.

## STANDARD PART NUMBERS FOR POWER TAP SWITCHES

| Number of taps* | Total rotation | Model 711<br>7A - 125V |         |         | Model 111<br>15A - 125V |         |         | Model 212<br>20A - 150V |         |         | Model 312<br>30A - 300V |         |         | Model 412<br>50A - 300V |         |         | Number of taps* | Total rotation | Model 608<br>100A - 300V |         |         |
|-----------------|----------------|------------------------|---------|---------|-------------------------|---------|---------|-------------------------|---------|---------|-------------------------|---------|---------|-------------------------|---------|---------|-----------------|----------------|--------------------------|---------|---------|
|                 |                | 711-*                  | 711--T2 | 711--T3 | 111-*                   | 111--T2 | 111--T3 | 212-*                   | 212--T2 | 212--T3 | 312-*                   | 312--T2 | 312--T3 | 412-*                   | 412--T2 | 412--T3 |                 |                | 608-*                    | 608--T2 | 608--T3 |
| 3               | 60°            | ✦                      | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | 3               | 80°            | ✦                        | ✦       | ✦       |
| 4               | 90°            | ✦                      | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | 4               | 120°           | ✦                        | ✦       | ✦       |
| 5               | 120°           | ✦                      | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | 5               | 160°           | ✦                        | ✦       | ✦       |
| 6               | 150°           | ✦                      | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | 6               | 200°           | ✦                        | ✦       | ✦       |
| 7               | 180°           | ✦                      | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | 7               | 240°           | ✦                        | ✦       | ✦       |
| 8               | 210°           | ✦                      | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | 8               | 280°           | ✦                        | ✦       | ✦       |
| 9               | 240°           | ✦                      | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       |                 |                |                          |         |         |
| 10              | 270°           | ✦                      | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       |                 |                |                          |         |         |
| 11              | 300°           | ✦                      | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       |                 |                |                          |         |         |
| 12              | 330°           | ✦                      | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       | ✦                       | ✦       | ✦       |                 |                |                          |         |         |

✦ = Non-standard values subject to minimum handling charge per item

\* Insert number of taps at asterisk for complete part number (e.g. 111-3-T2)

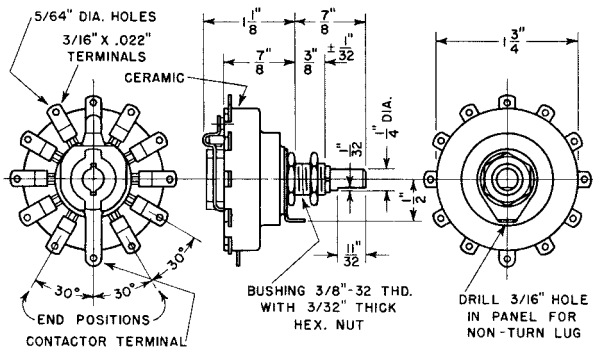
Check product availability at [www.ohmite.com](http://www.ohmite.com)

See page 82 for knobs,  
dials, and other hardware

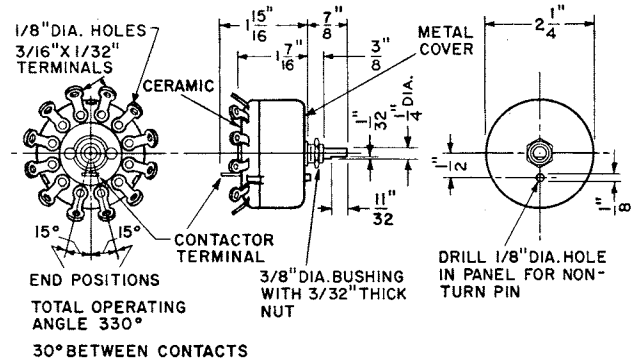
# Power Tap Switches

## High-current, Non-shorting Type

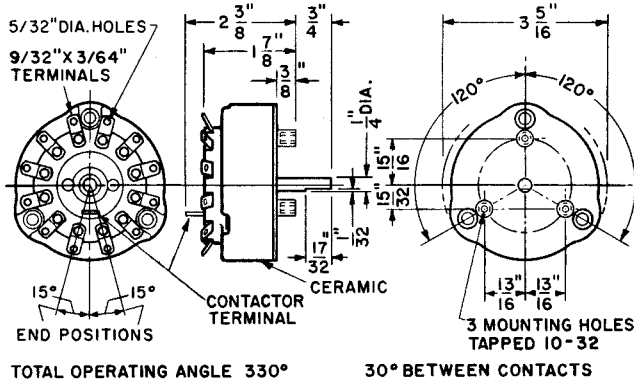
### Model 111



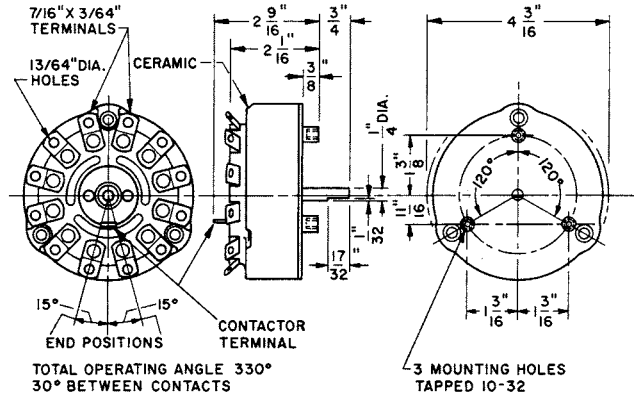
### Model 212



### Model 312



### Model 412



### Model 608

