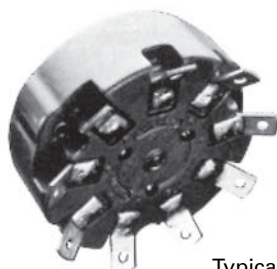


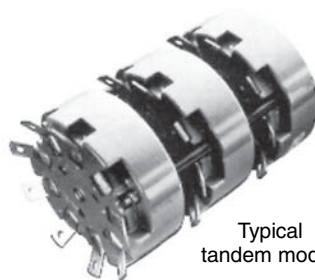
Power Tap Switches

High-current, Non-shorting Type

Model 711



Typical
ceramic style



Typical
tandem model

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

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, 6. bolts.

Mounting

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

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

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

Model 312: For $\frac{1}{4}$ " panel, maximum, use three 10-32 flat-head machine screws $\frac{3}{8}$ " long. Shaft $\frac{1}{4}$ "

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

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

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

STANDARD PART NUMBERS FOR POWER TAP SWITCHES

Number of taps*	Total rotation	Model 711 7A - 125V			Model 111 15A - 125V			Model 212 20A - 150V			Model 312 30A - 300V			Model 412 50A - 300V			Model 608 100A - 300V		
		711-* Single unit	711-*T2 2 in tandem	711-*T3 3 in tandem	111-* Single unit	111-*T2 2 in tandem	212-* Single unit	212-*T2 2 in tandem	212-*T3 3 in tandem	312-* Single unit	312-*T2 2 in tandem	312-*T3 3 in tandem	412-* Single unit	412-*T2 2 in tandem	412-*T3 3 in tandem	608-* Single unit	608-*T2 2 in tandem	608-*T3 3 in tandem	
3	60°	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	
4	90°	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	
5	120°	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	
6	150°	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	
7	180°	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	
8	210°	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	
9	240°	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	
10	270°	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	
11	300°	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	
12	330°	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	

Check product availability at www.ohmite.com

* = 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)

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See page 82 for knobs,
dials, and other hardware

High-current, Non-shorting Type

1/8" DIA. HOLES
3/16"x1/32" TERMINALS

CERAMIC

METAL COVER

CONTACTOR TERMINAL

3/8"DIA. BUSHING WITH 3/32" THICK NUT

END POSITIONS
TOTAL OPERATING ANGLE 330°
30° BETWEEN CONTACTS

DRILL 1/8" DIA. HOLE IN PANEL FOR NON-TURN PIN

Dimensions shown:
 - Top view: 15" / 16", 7" / 8", 2" / 4"
 - Side view: 1" / 16", 7" / 16", 8" / 16", 1" / 32", 1" / 4", 1" / 32", 11" / 32", 1"
 - End view: 1" / 2", 1"

Technical drawing of a 3-phase contactor, showing three views: front view (left), side view (middle), and end view (right).

Front View (Left): Shows the circular face of the contactor with 12 contact points. Dimensions include 7/16" x 3/64" TERMINALS, 13/64" DIA. HOLES, and 15° angles at the bottom labeled END POSITIONS.

Side View (Middle): Shows the profile of the contactor. Dimensions include 2 9/16", 2 1/16", 3/4", 2 1/16", 3/8", 1 1/2", 17/32", and 1 1/2". Labels include CERAMIC and CONTACTOR TERMINAL.

End View (Right): Shows the circular face from the end. Dimensions include 4 9/16", 1" DIA., 3", 3/8", 1 1/16", 120°, 120°, 3 1/16", and 3 1/16". Labels include 3 MOUNTING HOLES TAPPED 10-32.

Additional Labels: TOTAL OPERATING ANGLE 330° 30° BETWEEN CONTACTS.

17/64" DIA. HOLES

3/4" X 3/32" TERMINALS

CERAMIC

CONTACTOR TERMINAL

40°

END POSITION

3 5/16"

2 11/16"

1/2"

1 9/16"

SYMMETRICAL ABOUT CENTERLINE

6" DIA.

2"

120°

1"

3/8"

1/32"

1"

2"

47/64"

3 MOUNTING HOLES TAPPED 1/4"-20

TOTAL OPERATING ANGLE 280°.

40° BETWEEN CONTACTS.