

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, metal alloy contacts, and are of an all-soldered and all-riveted construction which 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; a very small unit with high current handling capability.

Power Tap Switches

High-current, Non-shorting Type

Model 711



Typical ceramic style



Typical tandem model

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 stock 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.

Model	Rating (AC)	Rating (DC)*	Max. no. of taps	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	1 ³ / ₁₆ / 20.6	1 ²⁵ / ₃₂ / 45.2	2 ¹⁵ / ₃₂ / 62.7	7-12 oz.-in.
111	15A 125V	15A 20V	11	2.0 / 50.8	1 ¹ / ₈ / 28.7	2 ³ / ₄ / 69.9	—	1.5-3.8 in.-lbs.
212	20A 150V	20A 20V	12	2.81 / 71.4	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	3.13 / 79.5	2 ¹ / ₄ / 57.2	4 ⁵ / ₈ / 117.5	7 / 177.8	3-7 in.-lbs.
412	50A 300V	50A 20V	12	3.32 / 84.3	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	4.88 / 124.0	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.

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, unenclosed 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.

STOCK PART NUMBERS FOR STANDARD RESISTANCE VALUES

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			Number of taps*	Total rotation	Model 608 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-stock values subject to minimum handling charge per item

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

See page 78 for knobs, dials, and other hardware