

Type 9441, Reversing Drum Switches



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Type 9441, Reversing Drum Switches

Application Description

These drum switches are designed primarily for use with single-phase and squirrel cage, single-speed reversible motors which may be connected directly across-the-line. Typical applications would be hoists and machine tools.

Features

- Compact size
- Front mounting—easily installed
- Terminals front accessible—slanted 45° for extra convenience
- Captive pressure clamps on terminal screws back off with screw—no prying with screwdriver necessary
- Choice of operators
 - Large
 - Lever
 - Knob
- Orientation of operator independent of legend—360° positioning in 22-1/2° increments—pointer remains oriented to legend
- Field convertible from maintained to momentary operation
- Replaceable, large volume, silver plated contacts
- Oiltight machine cavity or surface mounting types
- Modern attractive appearance

Operation

All of the operators may be rotated 360° in 22-1/2° increments without losing the indication of the drum position. A red-lined pointer is permanently orientated to the legend markings and clearly indicates the selected drum function regardless of the selected setting for the operator. This enables the user to “offset” the operator to afford the most comfortable operating position. This is accomplished simply by loosening and retightening one screw.

Standards and Certifications

- UL File No. E37316, Category NLRV
- CSA Guide No. 184-N-13.13A, Class 3211



3.1

NEMA Manual Starters

Starters and Switches

Product Selection

When Ordering Specify

- Catalog number

3

Type DB1 Flush Mount Standard Lever



Type DB and DD Surface Mounting Standard Lever



Type DB1 Flush Mount Knob Operator



Type DB and DD Surface Mounting Knob Operator



Reversing Drum Type without Overload Relay

Maximum Horsepower

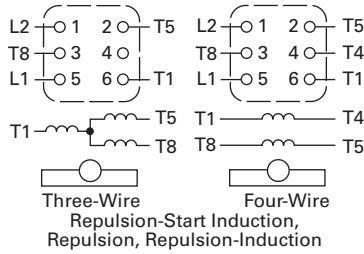
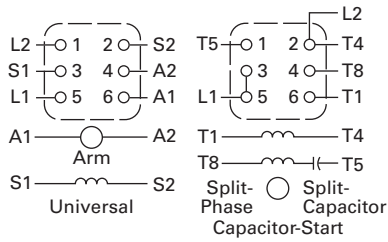
Three-Phase		Single-Phase		DC		Size	Type of Operation	Surface Mounting General Purpose—NEMA 1		Flush or Cavity Mounting (Oiltight Mounting on Sizes DB and DD)	
200–230V	380–575V	115V	230V	115V	230V			Lever Operator	Knob	Lever Operator	Knob
Three-Pole											
2	2	1-1/2	2	1	1	DB 1	Maintained ①	9441H268	9441H269	9441H274	9441H275
							Maintained and Momentary ②	9441H271	9441H272	9441H276	—
3	5	1-1/2	2	1	1	DB 2	Maintained ①	9441H353	9441H354	9441H347	—
							Maintained and Momentary ②	9441H356	9441H357	9441H349	9441H350
5	7-1/2	1-1/2	3	2	3	DD 1	Maintained ①	9441H284	9441H285	9441H388	—
7-1/2	10	2	5	2	3	DD 2	Maintained ①	9441H361	9441H363	9441H362	—

Notes

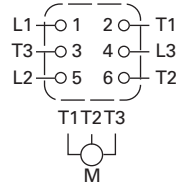
- ① These devices are field convertible from maintained both positions to momentary both positions.
- ② These devices are field convertible from maintained FORWARD and momentary REVERSE to momentary FORWARD and maintained REVERSE.

Wiring Diagrams

Single-Phase Motors

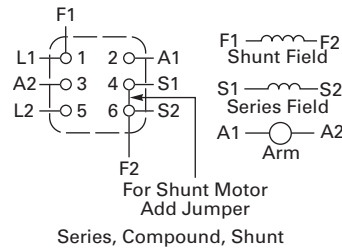


Polyphase Motors



Three-Phase Three-Wire

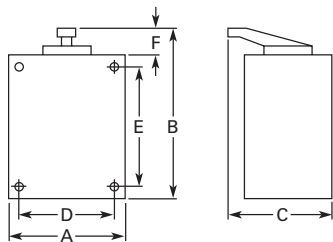
DC Motors



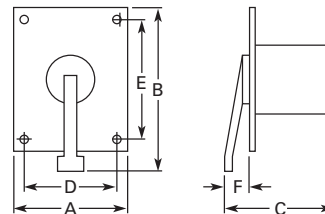
Dimensions

Approximate Dimensions in Inches (mm)

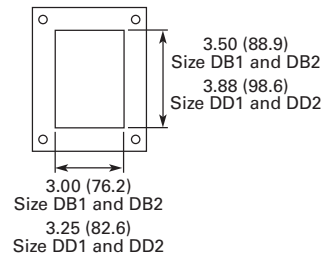
Surface Mounting



Cavity Mounting



Panel Cutout Cavity Mounting



Dimensions and Shipping Weights

Size	Type of Operator	Wide A	High B	Deep C	Mounting D	Mounting E	Lever F	Shipping Weight Lbs (kg)
Surface Mounting								
DB1 and DB2	Lever	2.50 (63.5)	5.88 (149.4)	4.38 (111.3)	2.00 (50.8)	2.25 (57.2)	1.88 (47.8)	3.0 (1.4)
	Knob	2.50 (63.5)	5.38 (136.7)	3.00 (76.2)	2.00 (50.8)	2.25 (57.2)	1.38 (35.1)	3.0 (1.4)
DD1 and DD2	Lever	3.38 (85.9)	6.88 (174.8)	4.75 (120.7)	2.63 (66.8)	2.75 (69.9)	2.00 (50.8)	4.0 (1.8)
	Knob	3.38 (85.9)	6.25 (158.8)	3.63 (92.2)	2.63 (66.8)	2.75 (69.9)	1.38 (35.1)	4.0 (1.8)
Cavity Mounting								
DB1 and DB2	Lever	4.00 (101.6)	4.75 (120.7)	5.00 (127.0)	3.50 (88.9)	4.00 (101.6)	1.88 (47.8)	3.0 (1.4)
	Knob	4.00 (101.6)	4.50 (114.3)	4.50 (114.3)	3.50 (88.9)	4.00 (101.6)	1.38 (35.1)	3.0 (1.4)
DD1 and DD2	Lever	4.50 (114.3)	5.75 (146.1)	5.25 (133.4)	4.00 (101.6)	4.50 (114.3)	2.00 (50.8)	4.0 (1.8)
	Knob	4.50 (114.3)	5.13 (130.3)	4.63 (117.6)	4.00 (101.6)	4.50 (114.3)	1.38 (35.1)	4.0 (1.8)