Technical Data



NEMA Manual Starting Switch Specifications

Bulletin Numbers 600, 609, 609U

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Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
Industrial Automation Wiring and Grounding Guidelines, publication <u>1770-4.1</u>	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, <u>http://www.ab.com</u>	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at <u>http://www.rockwellautomation.com/literature/</u>. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.





Manual Motor Starters

Bulletin	600	609	609U
Features	 Single-phase switch Used on compressors, fans, pumps, and table saws 	 Single- and three-phase switches Contact position indicator Locking feature Reversing and 2-speed 	 Single- and three-phase switches Contact position indicator Locking feature Undervoltage protection
Type of Operator 1-Phase Motor Voltage Push Button/ Toggle Lever/ Key	Phase Motor Voltage Two Pole		115230V AC, 60 Hz (15 Hp)
Type of Operator 3-Phase Motor Voltage Push Button / Toggle Lever	-	115230V AC, 60 Hz (310 Hp)	115230V AC, 60 Hz (310 Hp)
Enclosures NEMA Type	1, 4, 7 & 9	1, 3R, 4/4X, 7 & 9, and 12	1, 3R, 4/4X, 7 & 9, and 12

Group Fusing

The Bulletin 609 sizes 0 and 1 in Type 1, 4X, and 12 enclosures are UL Listed for group fusing with Class J fuses only. See table below for maximum fuse ratings.

The Bulletin 609U and 609TU Sizes 0 and 1 in Type 1, 4/4X, and 3R/12 enclosures are UL Listed for group fusing with Class J fuses only. See table below for maximum fuse ratings.

	Maximum Fuse Ratings [A]		
Full Load Current of Smallest	Nominal System Voltages		
Motor Amperes [A]	120240V	480600V	
0.452.99	30	30	
3.006.49	60	30	
6.5018.0	100	—	



609U and 609TU Typical Wiring Diagram

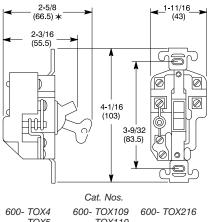
(See Applicable Codes and Laws) гъф L3C L1(Ð Undervoltage Coil 20.L. ≺0.L 0.L Coil VA Inrush 14.2VA Red ¢τ2 Τ1 ТЗ Black Sealed 4.6VA Motor

*Remove Jumper "A" to connect remote stop operator wires to vacated terminals. Note: Jumper not available on devices in Type 7 and 9 Enclosure.

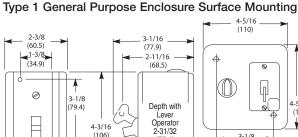
Dimensions are shown in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

0

Open Type without Enclosure

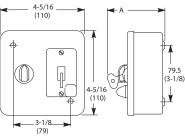


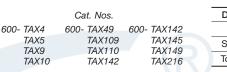
TOX5 TOX110 TOX49 TOX149



4-3/16

(106)

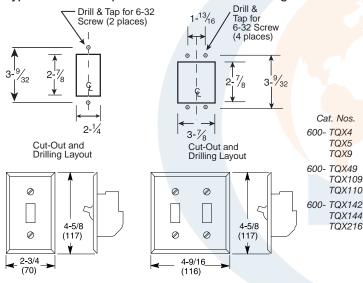




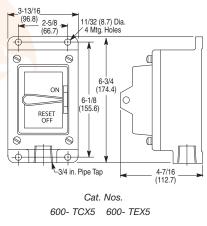
(75.4)

Dimension A in inches (millimeters)		
Key Inserted	1-1/8 (79.5)	
Selector Switch	2-3/4 (70)	
Toggle Operator	2-9/16 (65)	

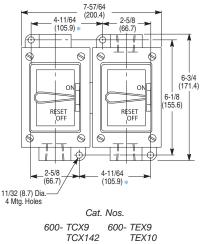
Type 1 General Purpose Enclosure Flush Mounting



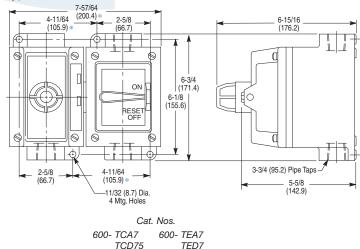
Type 4 Watertight Enclosure; Type 7 and 9 Hazardous Locations Enclosure



Type 4 Watertight Enclosure, Type 7 & 9



Type 7 & 9 Hazardous Locations Enclosure



* Lever Type Dimension is 2-17/32 in. (64.5 mm). * This dimension may vary up to ±1/8 in. (3.2 mm). Mounting holes should be located at time of installation using device as a template.