



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 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, http://www.ab.com	Provides declarations of conformity, certificates, and other certification details.

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

LISTEN.
THINK.
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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	Single Pole: 115...230V AC (1 Hp) Two Pole: 115...230V AC (1 Hp)	115...230V AC, 60 Hz (1...5 Hp)	115...230V AC, 60 Hz (1...5 Hp)
Type of Operator 3-Phase Motor Voltage Push Button / Toggle Lever	—	115...230V AC, 60 Hz (3...10 Hp)	115...230V AC, 60 Hz (3...10 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

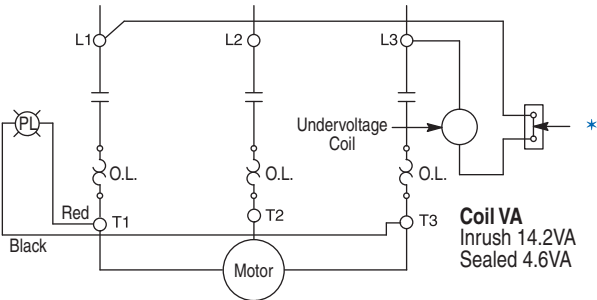
The Bulletin 609 sizes 0 and 1 in Type 1, 4X, and 12 enclosures are UL Listed for group fusing with Class J fuses only. See table below for maximum fuse ratings.

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.

Full Load Current of Smallest Motor Amperes [A]	Maximum Fuse Ratings [A]	
	Nominal System Voltages	
	120...240V	480...600V
0.45...2.99	30	30
3.00...6.49	60	30
6.50...18.0	100	—

609U and 609TU Typical Wiring Diagram

(See Applicable Codes and Laws)



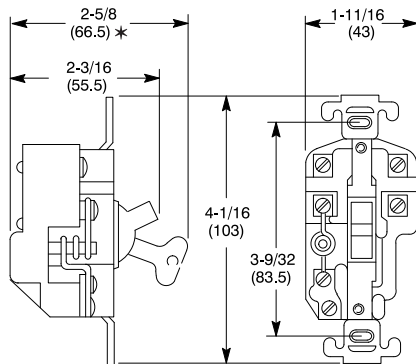
★ Remove Jumper “A” to connect remote stop operator wires to vacated terminals.
Note: Jumper not available on devices in Type 7 and 9 Enclosure.

Approximate Dimensions

600 Single-Phase Manual Starting Switch

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

Open Type without Enclosure



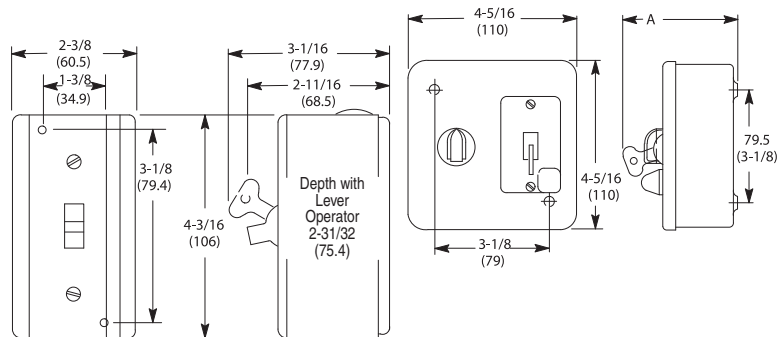
Cat. Nos.

600- TOX4
TOX5
TOX49

600- TOX109
TOX110
TOX149

600- TOX216

Type 1 General Purpose Enclosure Surface Mounting



Cat. Nos.

600- TAX4
TAX5
TAX9
TAX10

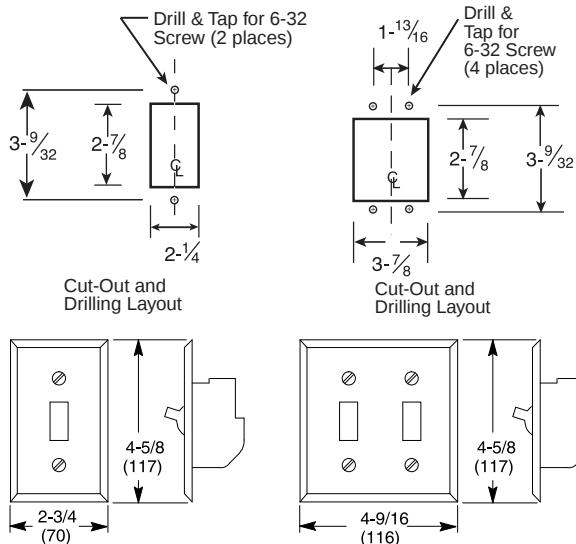
600- TAX49
TAX109
TAX110
TAX142

600- TAX142
TAX145
TAX149
TAX216

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



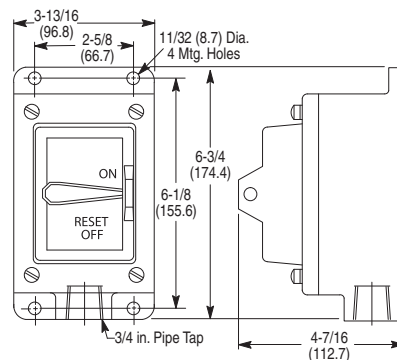
Cat. Nos.

600- TQX4
TQX5
TQX9

600- TQX49
TQX109
TQX110

600- TQX142
TQX144
TQX216

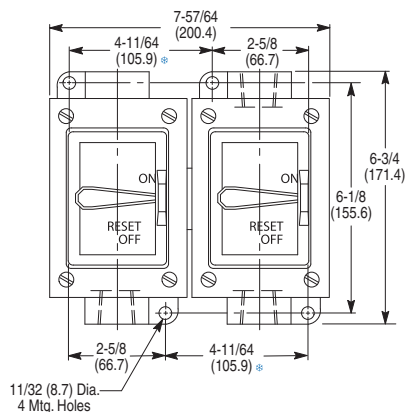
Type 4 Watertight Enclosure; Type 7 and 9 Hazardous Locations Enclosure



Cat. Nos.

600- TCX5 600- TEX5

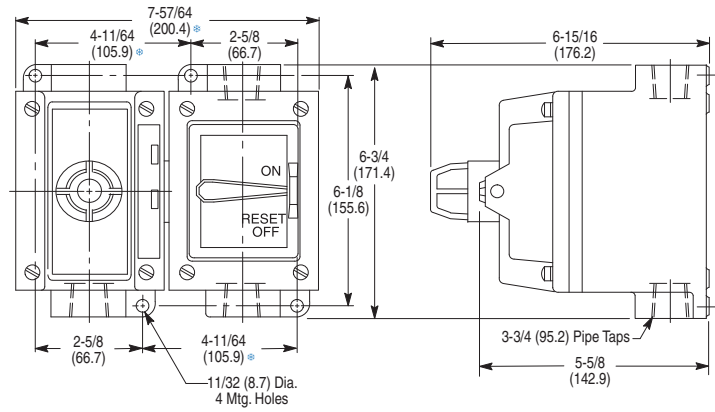
Type 4 Watertight Enclosure, Type 7 & 9



Cat. Nos.

600- TCX9 600- TEX9
TCX142 TEX10

Type 7 & 9 Hazardous Locations Enclosure



Cat. Nos.

600- TCA7 600- TEA7
TCD75 TED7

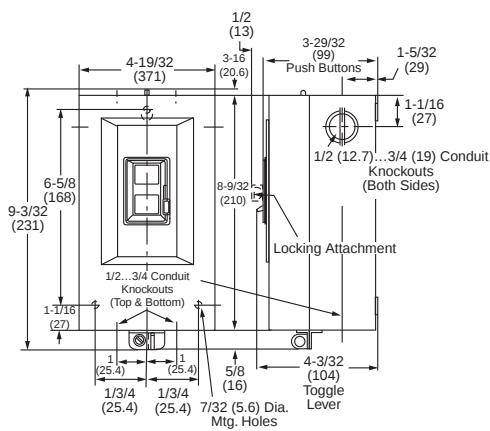
* Lever Type Dimension is 2-17/32 in. (64.5 mm).

* This dimension may vary up to $\pm 1/8$ in. (3.2 mm). Mounting holes should be located at time of installation using device as a template.

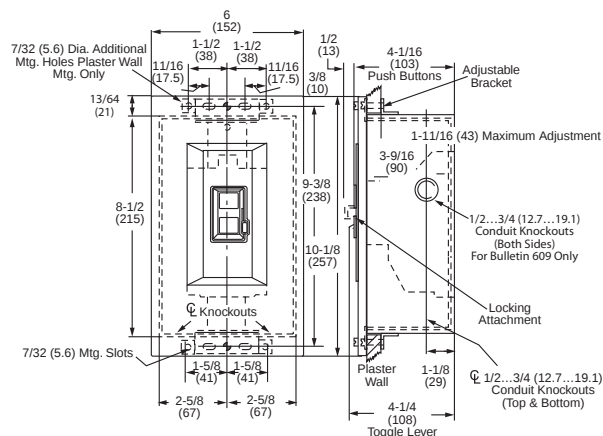
Dimensions are shown in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

Bulletin 609 – 609U

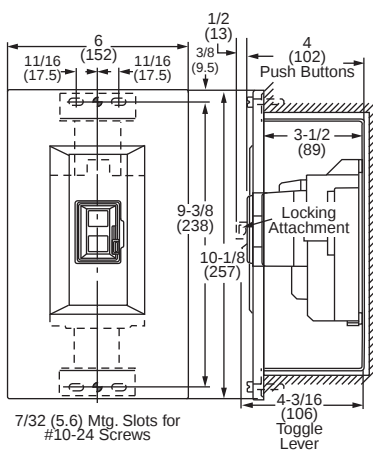
NEMA Type 1



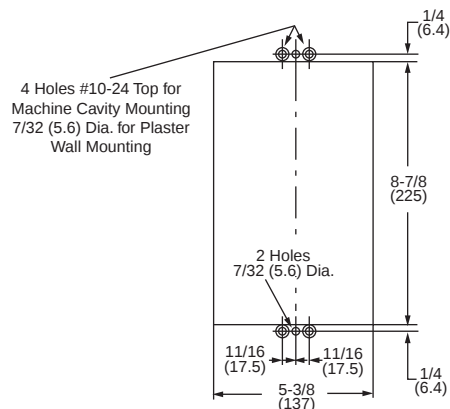
Surface Mounting



Flush Mounting for Plaster Wall

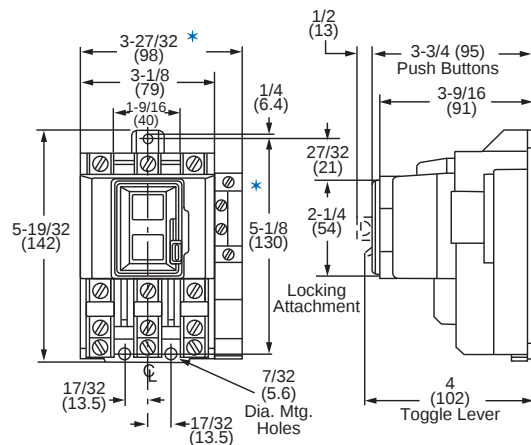


Flush Mounting for Machine Cavity

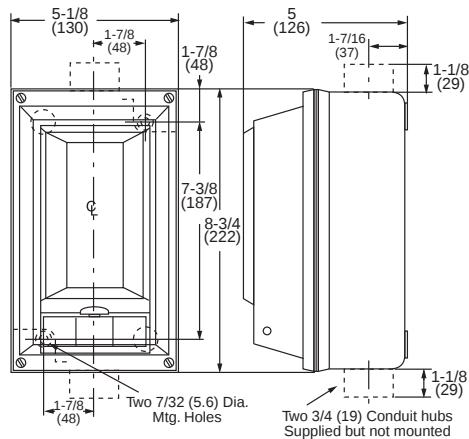


Flush Mounting Cavity and Drilling Layout

Open Type — Without Enclosure



NEMA Type 4/4X

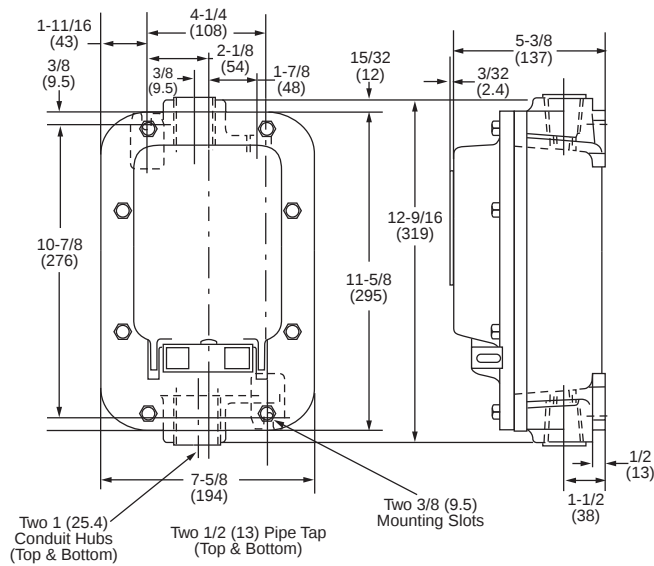


★ Undervoltage solenoid applies only to Bulletins 609U and 609TU.

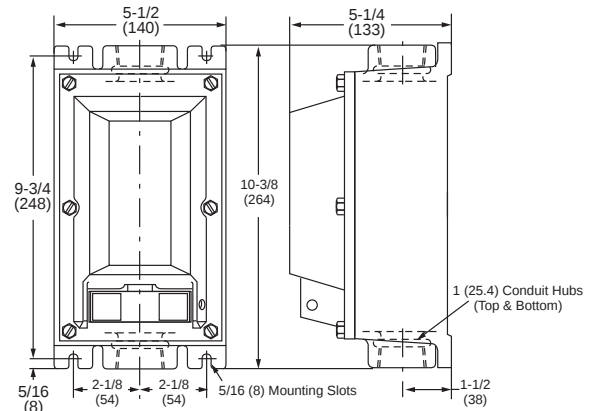
Dimensions are shown in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

Bulletin 609 – 609U, Continued

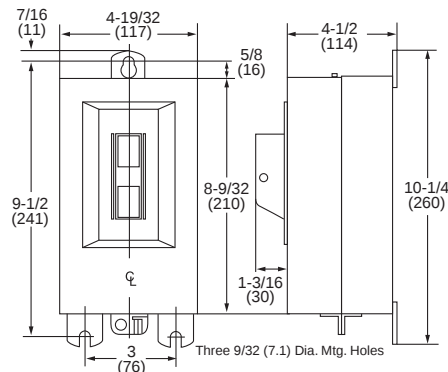
NEMA Type 3R, 7 & 9



NEMA Type 7 & 9

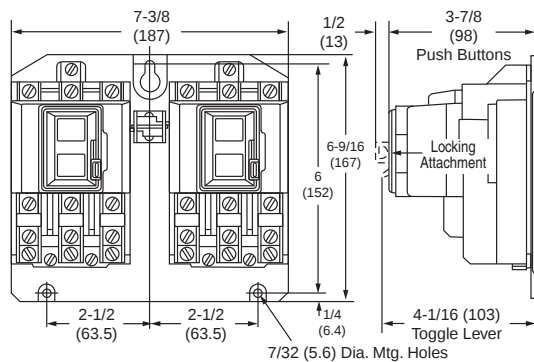


NEMA Type 12

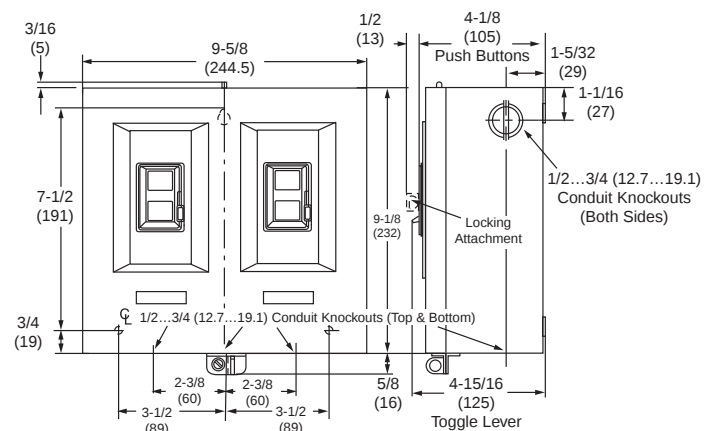


Bulletin 609RS, 609TS

Open Type Without Enclosure



NEMA Type 1



Important User Information

Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice.

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

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