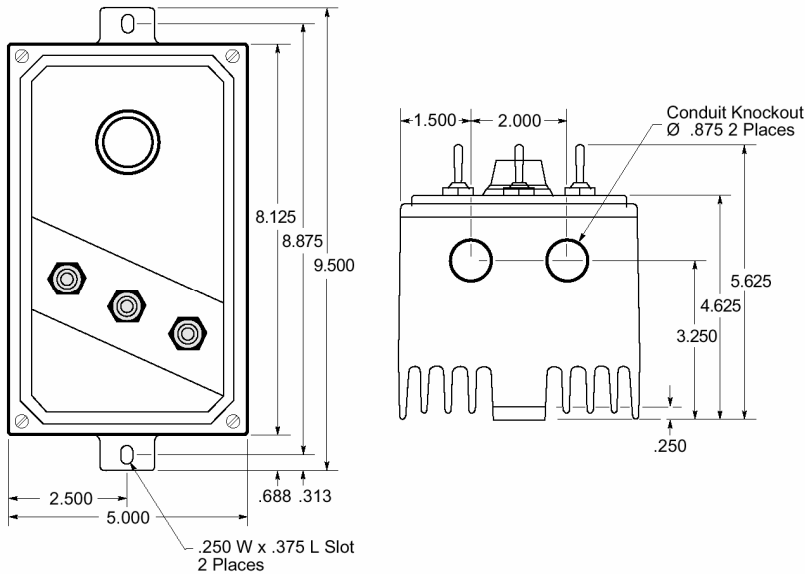




**BUILT SMART
BUILT TO SURVIVE**

Model 169 DC Drive Controller



Model 169 Drives combine application flexibility, compact size and reliability into an affordable adjustable speed package that delivers the performance you need for controlling THAYER volumetric and gravimetric feeders. Mounted in a NEMA 4/12 enclosure it includes Start/Run/Stop and Auto/Manual switches, manual speed adjust potentiometer and an isolated remote speed input (4-20 mA). Controls motor speed from adjust potentiometer in manual and signal follower input in automatic.

SPECIFICATION

RATINGS

- Horsepower Range: 115 VAC ¼ - 1 HP
230 VAC ½ - 2 HP
(Shunt wound or Permanent Magnet)
- AC Line Input Voltage: 114 or 230 VAC ± 10%
- AC Line Frequency: 50/60 Hz ± 2 Hz

115 VAC Supply

- Armature Voltage: 0-90 VDC.
- Field Voltage: 50/100 VDC.

230 VAC Supply

- Armature Voltage: 0-180 VDC.
- Field Voltage: 100/200 VDC.
- Service Factor: 1.0.
- Duty: Continuous.
- Maximum Load Capacity: 150 % for 1 minute.
- Line Protection: Fuse.

OPERATING CONDITIONS

- Ambient Temperature: 0-40° C
- Relative Humidity: 5-95% non-condensing.
- Altitude: To 3,300 feet (1,000m).

PERFORMANCE CHARACTERISTICS

- Speed Range: 30:1 with Armature feedback.
50:1 with Tachometer feedback.
- Speed regulation (As % of motor base speed) for 95% load change.
- Armature Feedback: ±2%.
- Tachometer Feedback: ½-1%.

ADJUSTMENTS

- Current Range: 2.5, 5, 7.5, 10 Amps DC Nominal.
(Adjustable to 150% of each range).
- Maximum Speed: 75-110% of motor base speed.
- Minimum Speed: 0-30% of motor base speed.
- IR Compensation: Adjustable.
- Acceleration: 1-5 seconds (Linear, 0 to top speed).

REMOTE SPEED INPUT

- Optically Isolated: 4-20 or 1-5 mA
0-10, 0-14 or 1-100 VDC

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