

**MODULATING ANALOG CONTROL (MODEL 42-107) AND DIRECT AC CONTROL (MODEL 42-105)
GENERAL SPECIFICATIONS**

Output Thrust and Timing	1,000 lbs., 4.2 sec/in
Stroke Range	5 to 18 inches
Drive Power	120 V ac, single-phase, 50 or 60 Hz, 1.5 A
Weight	Approx. 64–69 lbs., depending on selected options.
Operating Conditions	–40° to 85° C. (–40° to 185° F.) 0 to 99% relative humidity
Control Options	Two types of control are available: 1) Direct ac control option 5. Actuator is energized by 120 V ac line current from a remote controller or manual switches. 2) Modulating analog control option 7. Onboard actuator control electronics position output proportionally to mA Demand input signal.
Demand Input Signal (Option 7)	4–20 mA or 1–5 V dc
Deadband	1.0% of Span
Minimum Step	.25% of Span
Hysteresis	.5% of Span at any point
Position Feedback Signal	4–20 mA or 1–5 V dc
Feedback may be configured as a two wire transmitter or as a four wire active signal source. Two wire systems require a customer supplied external power supply. Four wire systems require 120 V ac supply to the drive.	
Isolation	Demand input and position Feedback signals are isolated from ground and the ac power line. Signal buffering provides 24 V dc isolation between the signals.
Action on Loss of Power	Stays in place.
Action on Loss of Demand Input Signal (Option 7)	Stays in place or moves to predetermined position with ac power supplied.
Stall Protection	If the motor tries to run in one direction for more than approx. 2 minutes, it will shut off.
Stall Relay Contacts (Option 7)	Form A, 10 volt-amps at 120 V ac or dc
Action on Stall (Option 7)	Motor power is turned off when relay contacts open (after 136 seconds of stall). Remote signal is available.
Travel Limit Switches	Two Form C (Retract and Extend), field-adjustable.
Auxiliary Switches	Two Form C rated for 1 A, 250 V ac., field-adjustable.
Handswitch (Option 7)	Permits local electrical operation, independent of Demand input signal.
Handwheel	Provides manual operation without electrical power.
Motor	120 V ac, single-phase, no burnout, non-coasting. Capable of 60 starts per minute.
Enclosure	Precision-machined aluminum alloy, painted with corrosion-resistant polyurethane paint, to provide a rugged, dust-tight, weatherproof enclosure designed to meet NEMA 4X standards.
Mounting Orientation	Can be mounted in any orientation.