

Series 87 Electric Actuator

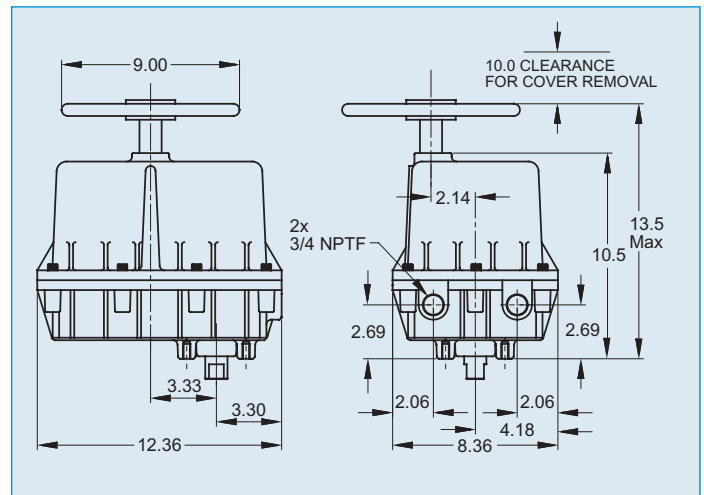
Standard Features

- **Motor:** Reversing, brushless, capacitor run 115 VAC 50/60 Hz, single phase
- **Overload protection:** Integral thermal overload protection for motor windings with automatic reset
- **Gear train:** Permanently lubricated
- **Conduit:** Two 3/4" NPTF conduit entries to eliminate cross feed between control, feedback and power signals
- **Declutchable manual override:** Push down on handwheel until engaged with cam and rotate
- **Limit switches:** Standard end of travel limit switches can be used for light indication (not to be used with PLC for position confirmation)
Two (2) auxiliary (additional) limit switches
- **Enclosure:** NEMA 4X
- **Corrosion resistant mounting:** Mounting is with stainless steel bracket, stainless steel coupling and stainless steel hardware
- **Output torque:** Series 87 Electric Actuators have an output torque range from 5000 in/lbs to 10,000 in/lbs
- **Mechanical Brake**

Options

- Feedback potentiometer
- Heater and thermostat
- 4-20 mA Positioner (Modulating PCB)
- Mechanical brake
- 4-20 output source (transmitter)
- Cycle length control module (CLC)
- Two-wire control
- Center-off
- Voltages
- Local Remote Station

See page 148 for more details regarding options.



Engineering Specifications

Size: E87, F87
 Torque: 5,000-10,000 in/lbs
 Voltage: 120 VAC 1Ph 50/60 Hz
 Amp Draw: E87 1.7, F87 2.2
 Conduit Entry: Two (2) 3/4" FNPT
 Max Ambient Temperature: 150°F
 Cycle Time per 90° : E87, F87: 30 seconds

Engineering Data

ENGINEERING DATA							
Model	115 Vac			230 Vac		Cycle Time per 90° Degrees (seconds)	Weight (lbs)
	Torque (in/lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle		
E87	5,000	1.7	50%	1.0	50%	30	34
F87	10,000	2.2	50%	1.2	50%	30	34

Note: Amp rating is considered locked rotor
 Duty cycles are for ambient temperature (73°F)

Sample Specification

All Series 87 electric actuators shall have thermally protected, bi-directional (reversing type), capacitor run motor with a permanently lubricated gear train. Actuator shall have planetary gearing encompassed in a diecast aluminum housing with stainless steel trim, meeting NEMA 4X. Each actuator shall have a manual override, visual position indication, two (2) auxiliary limit switches and a mechanical brake as supplied by Asahi/America Inc..