

Series 10 Electric Actuator



Specifications

Torque: 1320-10,440 in/lbs

Voltage: 120 VAC 1Ph 50/60 Hz

Amp Draw: 1.65 - 4.10

Conduit Entry: Two (2) 3/4" FNPT

Max Ambient Temperature: 150° F

Limit Switches: Four (4) single pole, double throw (4-SPDT) 10 amp rated

Torque Switches: Two (2) single pole, double throw (4-SPDT) 10 Amp rated

Cycle Time per 90°: 21 - 31 seconds

Standard Features

- **Motor:** Reversing, squirrel cage induction motor; 120 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" FNPT conduit entries to eliminate cross feed between control and power signals
- **Declutchable manual override:** Lockable declutching lever with handwheel
- **Limit switches:** Standard end of travel limit switches can be used for light indication (not to be use with PLC for position confirmation)
- **Auxiliary (Additional) limit switches:** Each electric actuator is provided as a standard with 2-SPDT auxiliary limit switches
- **Torque Switches:** 2-SPDT Torque switches
- **Mechanical Stops:** Two +/- 10% mechanical travel stops
- **Enclosure:** Type 4X & 6
- **AWWA C542:** Conforms to AWWA C542
- **Self-Locking:** Self-locking worm gear design eliminates the need for a mechanical brake
- **Space Heater:** A space heater is provided as standard equipment
- **Output torque:** Series 10 Electric Actuators have an output torque range from 1320 in/lbs to 10,440 in/lbs
- **Corrosion resistant mounting:** Mounting is with stainless steel bracket, stainless steel coupling, and stainless steel hardware

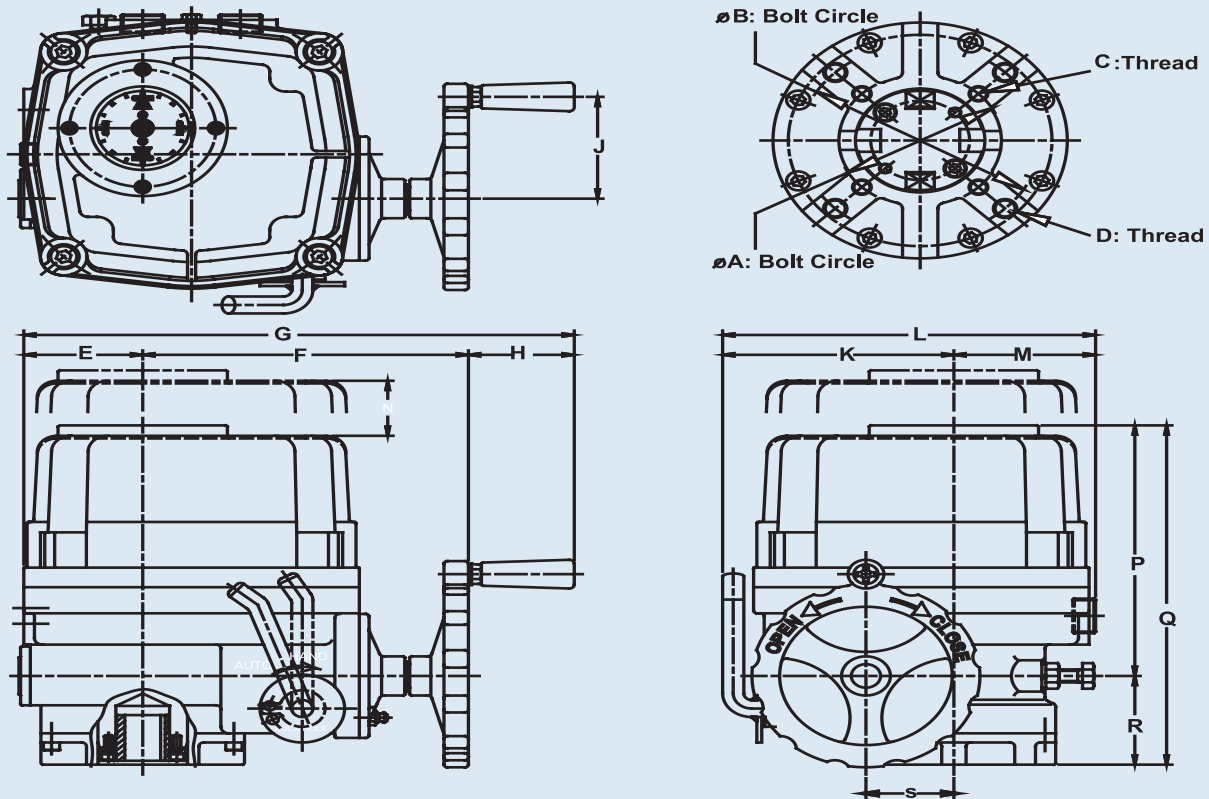
Sample Specifications

All Series 10 electric actuators shall have a thermally protected, bi-directional (reversing type), squirrel cage induction motor with a permanently lubricated gear train. Actuator shall have self-locking worm gearing encompassed in a die-cast aluminum housing anodized inside and outside, with an external polyester powder coat finish, conforming to Type 4X & 6. Each actuator shall have a lockable manual override, visual position indication, two (2) auxiliary limit switches, two (2) torque switches and a space heater as supplied by Asahi/America.

Options

- Positioner
- Transmitter
- Two-wire control
- Voltages: 230/1, 380/3, 460/3, 24VDC
- NEMA 7 Enclosure
- ATEX Enclosure
- Local Remote Station

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Dimensions

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
10-15	2.76	4.02	M8 X 12 DEEP	M10 X 15 DEEP	2.87	7.87	13.31	2.56	3.07	5.59	9.02	3.43	6.30	7.56	10.24	2.68	2.13
10-20	2.76	4.02	M8 X 12 DEEP	M10 X 15 DEEP	2.87	7.87	13.31	2.56	3.07	5.59	9.02	3.43	6.30	7.56	10.24	2.68	2.13
10-30	4.02	4.92	M10 X 15 DEEP	M12 X 18 DEEP	3.23	7.87	14.46	2.56	3.07	6.30	10.20	3.90	7.09	8.70	11.42	2.72	2.56
10-50	4.02	4.92	M10 X 15 DEEP	M12 X 18 DEEP	3.23	8.70	14.49	2.56	3.07	6.30	10.20	3.90	7.09	8.70	11.42	2.72	2.56
10-60	4.02	4.92	M10 X 15 DEEP	M12 X 18 DEEP	3.23	8.70	14.49	2.56	3.07	6.30	10.20	3.90	7.09	8.70	11.42	2.72	2.56
10-80	4.92	5.51	M12 X 18 DEEP	M16 X 25 DEEP	4.06	9.53	16.14	2.56	4.33	7.32	11.69	4.37	8.27	9.49	12.40	2.91	3.07
10-120	4.92	5.51	M12 X 18 DEEP	M16 X 25 DEEP	4.06	9.53	16.14	2.56	4.33	7.32	11.69	4.37	8.27	9.49	12.40	2.91	3.07

Engineering Data

Model	Torque (in/lbs.)	120/1 VAC		230/1 VAC		380/3 VAC		460/3 VAC		24 VDC		Cycle time per 90 degrees (Seconds)*	Weight
		Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle		
10-15	1320	1.65	70	0.88	70	0.31	70	0.30	70	2.20	70	21	37
10-20	1740	1.67	70	0.89	70	0.31	70	0.30	70	2.50	70	21	37
10-30	2580	1.85	70	0.92	70	0.35	70	0.34	70	2.90	70	26	49
10-50	4320	3.60	70	1.55	70	0.59	70	0.58	70	N/A	N/A	26	51
10-60	5220	3.65	70	1.60	70	0.60	70	0.59	70	N/A	N/A	26	51
10-80	6960	4.10	70	2.15	70	0.85	70	0.79	70	N/A	N/A	31	64
10-120	10440	4.20	70	2.35	70	0.87	70	0.81	70	N/A	N/A	31	64

*Cycle times are approximate