

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
- **Corrosion resistant housing:** Zytel FR50 engineered resin with stainless steel trim
- **ISO mounting configuration**
- **Conduit:** Two 1/2" NPT conduit entries to eliminate cross feed between control, feedback, and power signals
- **Position indication:** Highly visible position indicator for positive position of valve, even at a distance
- **Declutchable manual override:** Push down on handle and rotate in the appropriate direction (CCW for open, CW for close)
- **Limit switches:** Standard end of travel limit switches can be used for light indication (not to be use with PLC for position confirmation)
- **Corrosion resistant mounting:** Mounting is with PPG or stainless steel bracket, stainless steel coupling, and stainless steel hardware
- **CE compliant motor:** All 115 VAC and 230 VAC motors are CE compliant and stamped as such
- **Extended duty cycles:** Our extended duty cycles are ideal for modulating and high cycling applications
- **Output torque:** Series 94 Electric Actuators have an output torque range from 150 in/lbs to 300 in/lbs

Sample Specification

All Series 94 electric actuators shall have a thermally protected, bi-directional (reversing type), capacitor run motor with a permanently lubricated gear train. 115 Vac & 230 Vac motors shall conform to CE and be indicated on motor housing. Actuator shall have a Zytel FR50 engineered resin housing with stainless steel trim, which meets NEMA 4X. Each actuator to have a declutchable manual override, visual position indication, and ISO mounting configuration as manufactured by Asahi/America Inc.

Engineering Data

ENGINEERING DATA															
Model	Torque (in/lbs)	115 Vac		230 Vac		12 Vdc		24 Vdc		12 Vac		24 Vac		Cycle Time per 90 Degrees (seconds)	Weight (lbs)
		Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle		
A94	150	0.5	100%	0.4	100%	2.0	75%	4.0	75%	2.0	75%	4.0	75%	5	3.5
B94	300	0.8	75%	0.6	75%	2.0	75%	4.0	75%	2.0	75%	4.0	75%	5	3.5

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



Options

- Auxiliary (additional) limit switches
- 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
- Failsafe battery back up (Protek)
- Voltages
- Local Remote Station

See page 148 for more details regarding options.

Engineering Specifications

Size: A94, B94

Torque: 150-300 in/lbs

Voltage: 120 VAC 1Ph 50/60 Hz

Amp Draw: A94 .5A, B94 .8A

Conduit Entry: Two (2) 1/2" NPT

Max Ambient Temperature: 150°F

Switches: Two (2) single pole, double throw (2SPDT) 15 amp rated

Cycle Time per 90°: A94, B94: 5 seconds

Parts List

PARTS LIST			
NO.	Part Number	Quantity	Description
1	7403002	1	Base
2	7403000	1	Base Seal
3	7403017	1	Output Coupling
4	7403005	2	Coupling Gasket
5	7403004	1	Motor
6	7403022	2	Motor Screw
7	7403011	1	Base Plate
8	7401420	1	Terminal Block 1-8
9	7401425	1	Terminal Block 9-16
10	7401600	4	Terminal Block Screw
13A	7401948	1	4.2 mF Capacitor-A94
13B	7402004	1	6.7 mF Capacitor-B94
14	7401460	2	Limit Switch
15	7401620	2	Limit Switch Screw
16	7403016	1	Outer Shaft
17	7403006	2	Outer Shaft Gasket
18	7403009	2	Retaining Ring
19	7403018	2	Standoff
20	7403014	2	Base Plate Screw
21	7401480	2	Cam
22	7401740	4	Cam Set Screw
23	7403010	1	Pin
26	7403007	1	Base Gasket
27	7403001	1	Cover
28	7403020	1	Cover Seal
33	7403032	8	Cover Screw
34	7403003	1	Handle
35	7401700	1	Handle Screw

