Series 94

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.

Electric Actuator



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

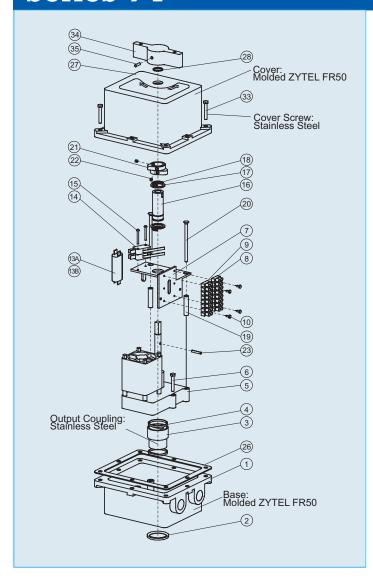
Engineering Data

	ENGINEERING DATA														
Model	Torque (in/lbs)	115 Vac		230 Vac		12 Vdc		24 Vdc		12 Vac		24 Vac		Cycle Time per	Weight
		Amp Draw	Duty Cycle	90 Degrees (seconds)	(lbs)										
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)

Series 94

Electric Actuator



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						

