ELECTRIC VALVE ACTUATOR

Series 94

Electric actuator · 150 – 300 in-lbs

A compact reversing, capacitor-run electric actuator in a corrosion-proof engineered resin enclosure rated Type 4X, with stainless steel trim and an approx. 5-second cycle time per 90°.

- Integral thermal overload, automatic reset
- Engineered resin housing, stainless steel trim
- ISO mounting – F05 / 14 mm star
- Declutchable manual override handle
- Two ½" NPT conduit entries



150–300	5 s	Type 4X	F05 14 mm
TORQUE · IN-LBS	CYCLE PER 90° (APPROX.)	ENCLOSURE RATING	ISO MOUNTING · STAR

The range.

TWO SIZES · STANDARD OR WITH RHM

A94

Torque	**150 in-lbs**
Cycle / 90°	**5 s***
120 VAC amp	**0.5 A**
120 VAC duty	**100%**
Weight	**3.5 lbs**

B94

Torque	**300 in-lbs**
Cycle / 90°	**5 s***
120 VAC amp	**0.8 A**
120 VAC duty	**75%**
Weight	**3.5 lbs**

Series 94 w/RHM

A94 or B94 fitted with the RHM module

Heater	**Heater & thermostat**
Relays	**Two SPDT 8 A dry contact**
Use	**PLC position confirmation**

OPTIONS	SERIES 94	SERIES 94 W/RHM	OPTIONS	SERIES 94	SERIES 94 W/RHM
Auxiliary limit switches	Option	–	Cycle length control (CLC)	Option	Option
Heater & thermostat	Option	Included (RHM)	Two-wire control	Option	Option
RHM relay heater module	Option	Included	Center-off	Option	–
Feedback potentiometer	–	Option	Failsafe battery back-up (Protek)	Option	Option
Positioner (modulating PCB)	–	Option	Voltages	Option	Option
Mechanical brake	Option	Option	Local remote station (LL200)	Option	–
Transmitter	Option	Option	HMI/LRS control station	–	Option

Engineering data.

AMP DRAW (A) · DUTY CYCLE BY VOLTAGE

		120 VAC		220 VAC		12 VDC		24 VDC		24 VAC			
Model	Torque in-lbs	Amp	Duty	Amp	Duty	Amp	Duty	Amp	Duty	Amp	Duty	Cycle / 90° (s)*	Weight lbs
A94	**150**	0.5	100%	0.4	100%	2.0	75%	4.0	75%	4.0	75%	5	3.5
B94	**300**	0.8	75%	0.6	75%	2.0	75%	4.0	75%	4.0	75%	5	3.5

Amp rating is considered locked rotor. Duty cycles are for ambient temperature (73 °F). * Cycle times are approximate. 120 VAC is standard; other voltages are options.

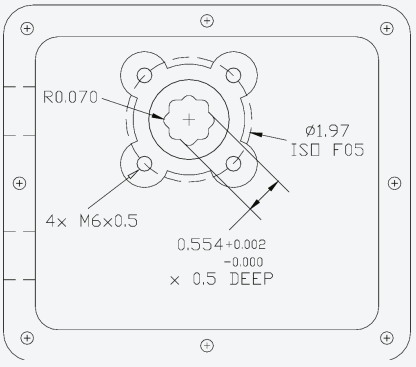
Specification.

A94 · B94

ENGINEERING SPECIFICATIONS & CONSTRUCTION

Standard voltage	120 VAC 1 ph 50/60 Hz
Motor	Reversing, brushless, capacitor-run 120 VAC 50/60 Hz, single phase
Overload protection	Integral thermal, motor windings, auto reset
Gear train	Permanently lubricated
Switches	Two SPDT end-of-travel, 15 A rated – for light indication, not for PLC position confirmation
Enclosure	Engineered resin (Zytel FR50), corrosion-proof, weatherproof, Type 4X, SS trim · captivated SS hex-head slotted cover screws
Mounting	ISO F05 / 14 mm star · PPG or SS bracket, SS coupling & hardware
Manual override	Push down on handle and rotate (CCW open, CW close)
Conduit · ambient	Two ½" NPT · max ambient 150 °F
Approvals	UL-508 Listed · 120 VAC & 220 VAC motors CE compliant

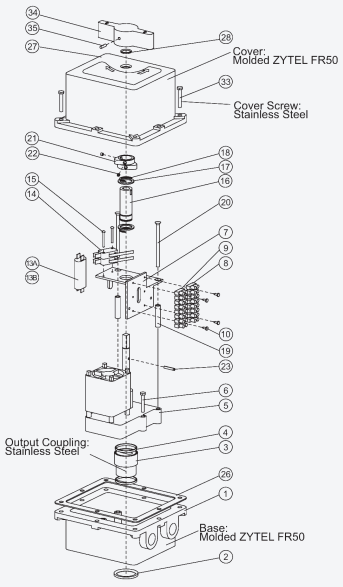
BASE MOUNTING DETAIL



Dimensions as shown on the Asahi/America drawing.

General parts list.

COVER & BASE: MOULDED ZYTEL FR50 · COUPLING: STAINLESS STEEL



No.	Part no.	Qty	Description
1	7403002	1	Base
2	7403000	1	Base Seal
3	7403043	1	Output Coupling
4	7403005	2	Coupling Gasket
5	7403004	1	Motor (120VAC)
6	ACTMSC	2	Motor Screw
7	7403011	1	Base Plate
8	7401420	1	Terminal Block 1-8
9	7401425	1	Terminal Block 9-16
10	ACTMSC	4	Terminal Block Screw
13A	7401948	1	4.2 mFD Capacitor – A94
13B	7402004	1	6.7 mFD Capacitor – B94
14	7401460	2	Limit Switch
15	ACTMSC	2	Limit Switch Screw

No.	Part no.	Qty	Description
16	7403016	1	Outer Shaft
17	7403006	2	Outer Shaft Gasket
18	ACTMSC	2	Retaining Ring
19	ACTMSC	2	Standoff
20	ACTMSC	2	Base Plate Screw
21	7401480	2	Cam
22	ACTMSC	4	Cam Set Screw
23	ACTMSC	1	Pin
26	7403007	1	Base Gasket
27	7403001	1	Cover
28	7403020	1	Cover Seal
33	ACTMSC	8	Cover Screw
34	7403003	1	Handle
35	7401700	1	Handle Screw

Data supplied by Asahi/America and provided for reference only. Specifications may change without notice – please confirm details with Actuation Valve & Control before ordering.

Automating a smaller valve?

Talk to our UK team about Series 94 actuators, options and complete actuated valve packages.

actuation.co.uk