### Series 92

## **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, solid gear that is Rockwell hardened
- Corrosion resistant housing: Thermally bonded baked powder coating 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 beacon position indicator for positive indication of valve position, even at a distance
- Declutchable manual override: Pull up on indicator knob, insert 5/8" wrench onto flats and rotate in the appropriate direction (CCW for open, CW for close). Models with handwheel override do not require a wrench. Simply 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 use with PLC for position confirmation)
- Enclosure: Combination Type 4X, 7 & 9 enclosure for use in various environments
- 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 92 Electric Actuators have an output torque range from 400 in/lbs to 2000 in/lbs
- RoHS Compliant

**Engineering Data** 



### **Options**

- · Auxiliary (additional) limit switches
- · Feedback potentiometer
- Heater and thermostat
- Positioner (Modulating PCB)
- Mechanical brake
- Transmitter
- Cycle length control module (CLC)
- Two-wire control
- Failsafe battery back up (Protek)
- Voltages
- Local Remote Station

See page 177 for more details regarding options.

### **Engineering Specifications**

Size: S92, A92, B92, C92 Torque: 400-2000 in/lbs

Voltage: 120 VAC 1Ph 50/60 Hz

Amp Draw: S92, B92 .5A, A92 .8A, C92 1.0A

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°: S92, A92: 15 seconds \* Approx. B92, C92: 32 seconds \* Approx

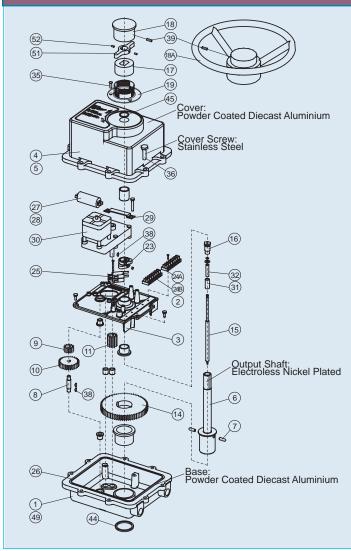
	ENGINEERING DATA														
Model	Torque (in/lbs)	115 Vac		230 Vac		12 Vdc		24 Vdc		12 Vac		24 Vac		Cycle Time per	Weight
		Amp Draw	Duty Cycle	90 Degrees (seconds)*	(lbs)										
S92	400	0.5	100%	0.4	100%	2.0	75%	4.0	75%	2.0	75%	3.0	75%	15	15.3
A92	700	0.8	75%	0.6	75%	2.0	75%	4.0	75%	2.0	75%	3.0	75%	15	15.3
B92	1100	0.5	100%	0.4	100%	2.0	75%	4.0	75%	2.0	75%	3.0	75%	32	15.3
C92	2000	1.0	50%	0.6	50%	2.0	75%	4.0	75%	2.0	75%	3.0	75%	32	18.3

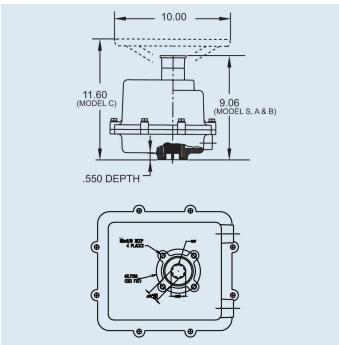
Note: Amp rating is considered locked rotor. Duty cycles are for ambient temperature (73°F)

<sup>\*</sup> Cycle times are approximate

# Series 92

# **Electric Actuator**





#### **Parts List**

PARTS LIST										
NO.	Part		PC			Description				
	Number	S92		B92		<u>'</u>				
1	7401920	1	1	1	1	Base				
3	7401060	1	1	1	1	Base Plate				
4	7401940	1	1	1	1	Cover				
6	7401900	1	1	1	-	Shaft Main				
6A	7401905	-	-	-	1	Shaft Main				
7	7401360	2	2	2	2	Pin				
8	7401280	-	-	1	1	Shaft Stub				
9	7402003	-	-	1	1	Spur Gear 1B				
10	7402002	-	-	1	1	Spur Gear 1A				
11	7401400	1	1	1	1	Gear Pinion				
14	7401380	1	1	1	1	Gear Main				
15	7401200	1	1	1	-	Shaft Inner				
15A	7401210	-	-	-	1	Shaft Inner				
16	7401180	1	1	1	1	Shaft Retainer				
17	7401300	1	1	1	1	Knob Lower				
18	7401320	1	1	1	-	Knob Upper				
18A	7401995	-	-	-	1	Handwheel				
19	7401260	1	1	1	1	Collar				
23	7401480	2	2	2	2	Cam				
24A	7401420	1	1	1	1	Terminal Block 1-8				
24B	7401425	1	1	1	1	Terminal Block 9-16				
25	7401460	2	2	2	2	Switch				
26	7401560	1	1	1	1	O-Ring Base/Cover				
27	7402948	1	-	1	1	Capacitor 4.2 mFD				
27A	7402004	-	1	-	-	Capacitor 6.7 mFD				
28	7403008	-	-	-	1	Capacitor 7.6 mFD				
29	7401520	1	1	1	1	Capacitor Bracket				
30	7401340	1	1	1	1	Motor				
31	7401250	1	1	1	1	Shell				
32	7401220	1	1	1	-	Spring				
32A	7401230	-	-	-	1	Spring				
35	7401680	3	3	3	3	Collar Screw				
36	7401640	8	8	8	8	Cover Screw				
38	7401880	1	1	3	3	Key,Woodruff 3/32				
39	7401700	1	1	1	1	Knob Set Screw				
44	7401040	1	1	1	1	Seal Base				
45	7401140	1	1	1	1	Seal Cover				
51	7401485	-	-	-	1	Handwheel Cam				
52	8100179	-	-	-	2	Cam Set Screw				

### Sample Specification

All Series 92 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 solid, heat-treated gearing encompassed in a baked powder coated die cast aluminum housing with stainless steel trim, which meets Type 4X, 7 & 9. Each actuator to have a declutchable manual override, visual position indication, ISO mounting configuration, and be RoHS compliant as manufactured by Asahi/America Inc.