Series 92 120 VAC & 220 VAC Explosion Proof Electric Actuator

Standard Features

- UL1203 Certified (CL.I, DIV. 1&2)
- Motor: Reversing, brushless, capacitor run 120 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 Enclosure: Thermally bonded polyester powder coat finish with stainless steel trim
- **ISO** mounting configuration (FO7/17 star)
- Conduit: Two ½" FNPT conduit entries to eliminate cross feed between control, feedback, and power signals
- Position indication: Highly visible beacon position indicator for positive position of valve, even at a distance
- Declutchable manual override: Pull up on indicator knob, insert 5/8" wrench on to 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)
- UL1203 Enclosure: Combination weather proof & explosion proof (CL.I, Div. 1&2) enclosure for use in various environments
- Captivated SS hexhead slotted enclosure screws
- CE compliant motor: All 120 VAC and 220 VAC motors are CE compliant 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

Options

- Auxiliary limit switches
- Mechanical brake
- DC control relay
- 220 VAC
- Hand wheel manual override
- No manual override
- TYPE 7 breather
- Custom wiring configurations



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.OA

Conduit Entry: Two (2) ½" FNPT Max Ambient Temperature: 150° F

Switches: Two (2) single pole, double throw

(2-SPDT) 15 amp rated

Cycle Time per 90°: S92, A92: 15 seconds

B92, C92: 32 seconds

Enclosure: UL1203 CL.I, Div. 1&2

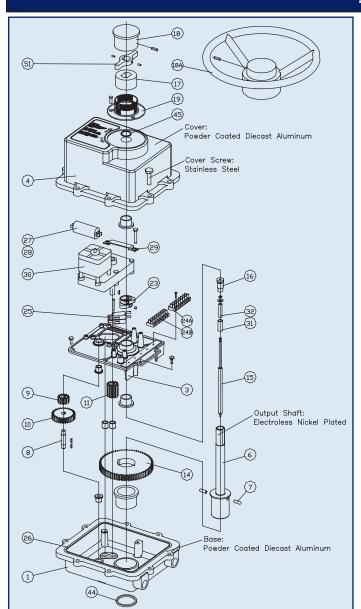
Engineering Data

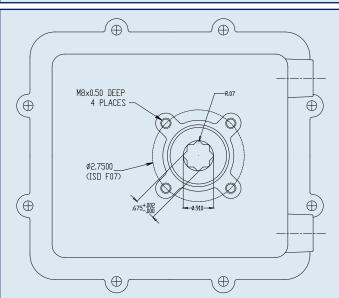
Model	Torque (in/lbs)	120/1 VAC		220/1 VAC		Cycle Time per	Weight
		Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	90 Degrees (seconds)*	(lbs)
S92	400	0.5	100%	0.4	100%	15	15.3
A92	700	0.8	75%	0.6	75%	15	15.3
B92	1100	0.5	100%	0.4	100%	32	15.3
C92	2000	1.0	50%	0.6	50%	32	18.3

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

* Cycle times are approximate and will vary depending on load.

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Parts List

PARTS LIST											
		PCS.				Description					
NO.	Part Number	S92	A92	B92	C92						
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 B1					
10	7402002			1	1	Spur Gear A1					
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	120 VAC Motor					
31	7401250	1	1	1	1	Shell					
32	7401220	1	1	1		Spring					
32A	7401230				1	Spring					
44	7401040	1	1	1	1	Seal Base					
45	7401140	1	1	1	1	Seal Cover					
51	7401485				1	Handwheel Cam					

Sample Specification

All Series 92 120 VAC & 220 VAC Explosion Proof electric actuators shall be UL1203 Certified for Class I, Division 1 & 2 locations, have a thermally protected, bi-directional (reversing type), capacitor run motor with a permanently lubricated gear train. Motors shall conform to CE and be indicated on motor housing. Actuator shall have solid, heat-treated alloy steel gearing encompassed in a die cast aluminum enclosure that has a thermally bonded polyester powder coat finish, with stainless steel trim. Actuator enclosure shall conform to weather proof and explosion proof criteria set forth by UL Standard 1203, and bear the UL1203 plaque for CL.I Div. 1 locations. Each actuator shall have a declutchable manual override, visual position indication, and an ISO mounting configuration as manufactured by Asahi/America.