Series 92 Electric Actuator

CAUTION: Proper voltage must be supplied to actuator.

CAUTION: If 115VAC & 220VAC models are PLC driven, output contacts of PLC should be rated at a minimum of 1.5 times required input voltage of actuator

<u>MOTE:</u> To conform to various electrical codes, a green grounding screw has been installed (on the base plate) inside of actuator.

Cover/Base bolts should be torqued to 120 in/lbs

Terminal strip is suitable for up to #14 AWG wire, and should be wired as per the attached diagrams or the wiring diagram affixed inside of actuator cover.

NOTE: We recommend sealing conduit openings on units installed outdoors or exposed to large temperature swings (15°F or more).

We also recommend the heater and thermostat option in these applications.

		115 VAC		230 VAC		12 VDC		24 VDC		12 VAC		24 VAC		Cycle Time
Model	Torque	Amp	Duty	Amp	Duty	Amp	Duty	Amp	Duty	Amp	Duty	Amp	Duty	per 90 Degrees
	(in/lbs)	Draw	Cycle	Draw	Cycle	Draw	Cycle	Draw	Cycle	Draw	Cycle	Draw	Cycle	(seconds)
S92	400	0.5	100%	0.4	100%	2.0	75%	4.0	75%	2.0	75%	3.0	75%	10
A92	700	0.8	75%	0.6	75%	2.0	75%	4.0	75%	2.0	75%	3.0	75%	10
B92	1100	0.5	100%	0.4	100%	2.0	75%	4.0	75%	2.0	75%	3.0	75%	25
C92	2000	1.0	50%	0.6	50%	2.0	75%	4.0	75%	2.0	75%	3.0	75%	25

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

For outdoor or wet locations it is recommended prior to replacing the cover that the top shaft seal be cleaned and coated with silicone grease. Also clean shaft and lightly coat seal area of shaft with silicone grease.

Operation

Manual Override Operation Reference Drawing #289S92

Models S-92, A92, & B92

Pull up the declutching knob (Part #18) and apply a 5/8" open end wrench to exposed flats and rotate within labeled limits as indicated by arrows. To re-engage simply rotate actuator shaft in the opposite direction until declutching knob drops back down into position.

Model C92

Push down on hand wheel (Part #18A) and rotate within labeled limits. To re-engage simply rotate actuator hand wheel in the opposite direction until it moves up and re-engages.

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<u>CAUTION:</u> The manual override should only be used when there is no power applied to actuator. When power is restored the actuator will automatically resume normal operation.

<u>Setting Limit Switches</u> Reference Drawing #289S92



Disconnect power!

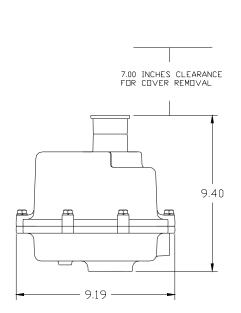
Open Travel Limit Switch (Top Switch Part #25):

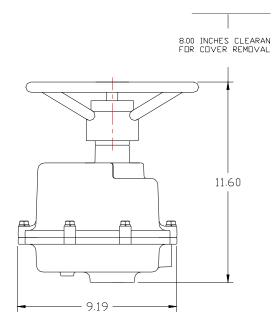
Using declutchable manual override, move the valve into a full open position. Then loosen set screws on top cam (Part #40) and rotate cam (CCW) into limit switch arm until a click is heard, this designates the switch circuit has opened and defines a full open position. Tighten 2 set screws (Part #40) on cam.

Close Travel Limit Switch (Bottom Switch Part #25):

Using declutchable manual override, move the valve to a full closed position, loosen set screws on bottom cam (Part #40) and rotate cam (CW) into limit switch arm until a click is heard, this designates the switch circuit has opened and defines a full closed position. Tighten 2 set screws (Part #40) on cam.

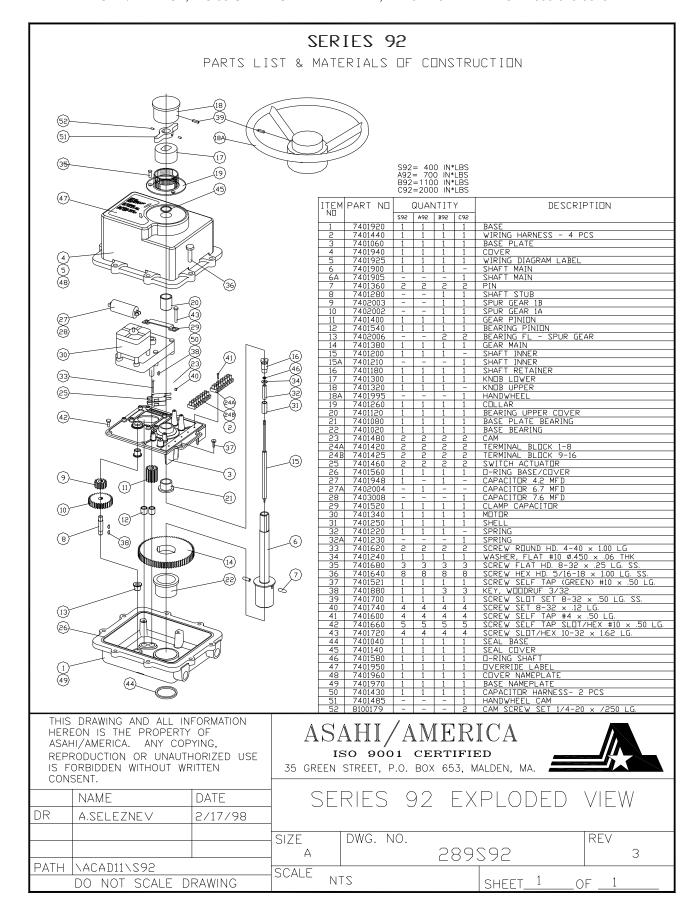
Manually position valve to mid-stroke. Reapply power to actuator and drive to open or closed position. Actuator motor will run. The shaft will not turn until drive pins (Part #7) reseat in drive gear. This could take up to 25 seconds.





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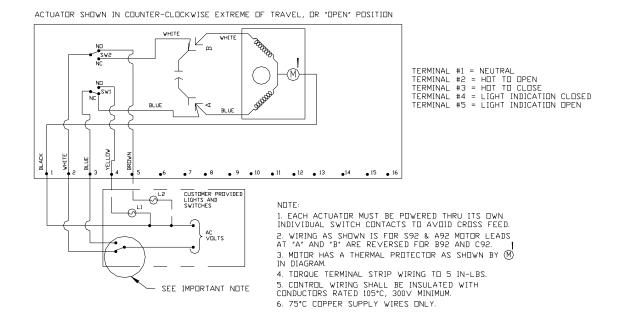
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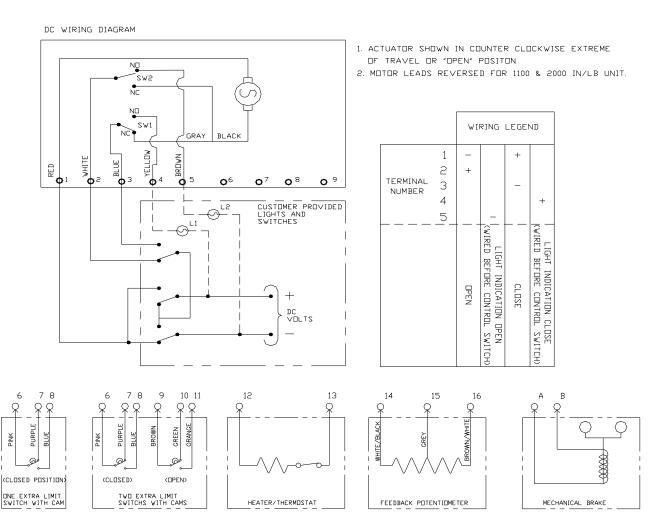


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