

EA Series Actuators

- **High Torque Actuator – EA70 Series**



EA70 Series

The high torque actuator will position a heavy damper, globe valve, blast gate, air or gas valve. It can be used for vortex control and hydraulic coupling, and will drive a speed changing screw or slide gate requiring a torque proportional actuator. Power consumption is 190 W. Standard features include 100 Ω feedback slidewire and a single SPDT switch. Shipping weight, 30 lbs. Weather resistant models are NEMA 4.

Specifications

Control Action:	Requires SPDT switch with neutral (floating) or two position and proportional.
Connections:	Coded screw terminals.
Shaft Rotation:	Reversible proportional can stop at any point in the stroke.
Auxiliary Switch:	Adjustable SPDT snap acting. Factory set to close one contact and open the other at end of clockwise rotation.
Ambient Temperature Limits:	-40 to 130 °F (-40 to 54 °C).
Humidity:	5 to 95% rh, non-condensing.
Mounting:	Damper - upright recommended. Valve- any upright position with actuator above centerline of valve body.
Dimensions:	9-9/16" H x 9-1/2" W x 10-1/2"D (243 mm x 241 mm x 267 mm)

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Ordering Information

MODEL E A - - - 0 - 0 0
 Field No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Fields 1, 2. Model Series

Fields 3, 4. Base Model

	Travel Limit	Time (Seconds)	Torque (Lbs./in.)
71 -	90°	20	550
72 -	180°	40	550
73 -	90°	33	1100
74 -	180°	65	1100
75 -	90°	57	1300
76 -	180°	115	1300

Fields 5, 6. Input

Model 658A is a current to position converter; model 659A is a resistance to position converter. Either converter can be mounted on the side of the actuator, allowing room for an option on the rear of the actuator.

	Input Signal	Converter Model
00 -	Contact	
11 -	4 to 20 mAdc	658A-00021
12 -	4 to 12 mAdc	658A-00022
13 -	12 to 20 mAdc	658A-00023
14 -	2 to 12 mAdc	658A-00024
15 -	2 to 7 mAdc	658A-00025
16 -	7 to 12 mAdc	658A-00026
19 -	Other, Special	658A-00028-000-X-XX*
31 -	Slidewire	659A-00020

The following codes are rain tight input converters mounted to the series EA. To order the series EA weather resistant, you must select cover option 37 (fields 7, 8).

Rain Tight Converters:

21 -	4 to 20 mAdc	658A-00031
22 -	4 to 12 mAdc	658A-00032
23 -	12 to 20 mAdc	658A-00033
24 -	2 to 12 mAdc	658A-00034
25 -	2 to 7 mAdc	658A-00035
26 -	7 to 12 mAdc	658A-00036
29 -	Other, Special	658A-00038-000-X-XX*
41 -	Slidewire	659A-00030

*Consult factory.

Fields 7, 8. Options

Options 00-07 can't be combined with rain tight converters. Option 37 must be specified with rain tight converter.

- 00 - None
- 01 - Two auxiliary SPDT switches
- 02 - Four auxiliary SPDT switches
- 03 - Rear shaft
- 04 - 100 Ω rear slidewire
- 05 - 100 Ω rear slidewire with two switches
- 06 - 1000 Ω rear slidewire
- 07 - 1000 Ω rear slidewire with two switches
- 41 - One 100 Ω rear slidewire, weather resistant
- 42 - Two 100 Ω rear slidewires, weather resistant
- 43 - Three 100 Ω rear slidewires, weather resistant
- 37 - NEMA 4 weather resistant cover

Field 9. Motor Voltage/Frequency

- 0 - 120 Vac 60 Hz.
- 1 - 120 Vac 50 Hz. (not available with EA76)
- 3 - 240 Vac 60 Hz.
- 4 - 240 Vac 50 Hz. (EA71, EA73 and EA75 only)

Fields 10, 11. Transformer

- 00 - None
- 01 - Built-in 120–24 Vac (not available with 658A or 659A)
- 02 - Built-in 240–24 Vac (not available with 658A or 659A)

Field 12. Feedback Slidewire

- 0 - 100 Ω
- 1 - 135 Ω
- 2 - 500 Ω
- 3 - 1000 Ω

Fields 13, 14, 15. Special

- 0-00 - None