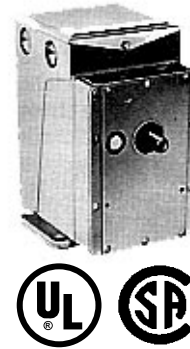


# EA Series Actuators

- **Medium Torque, Gear Train**
- **Non-Spring Return Actuator – EA50, EA60 Series**



## EA50 & EA60 Series

The medium torque actuator is ideal for proportional positioning of a fuel valve, butterfly valve, damper and similar applications. Units are available with either fixed or adjustable speed. Timing of adjustable speed units can be increased (decreasing the speed) by turning a slotted adjustment screw on the outside of the case. Adjust range is approximately ten times rated. Power consumption is 40 W. 100  $\Omega$  feedback slidewire and a single SPDT switch are standard features. Shipping weight, 8 lbs.

All 60 Hz models except those with weather resistant cover or built-in transformer are UL listed. All 120 Vac 60 Hz and 240 Vac 60 Hz base models (no converter and no options) except EA60 and EA61 are CSA approved. Specials and 50 Hz models are not UL listed or CSA approved. Weather resistant models are NEMA 4.

## Specifications

<b>Control Action:</b>	1) Floating. Requires SPDT switch with floating (center off) position rated at 0.9 amps. 2) Proportional, electric. 3) Proportional, electronic. Requires 658A converter.
<b>Connections:</b>	Coded screw terminals.
<b>Shaft Rotation:</b>	Reversible proportional can stop at any point in the stroke. Adjust 45 to 320°.
<b>Spring Return:</b>	To normal position on power interruption.
<b>Auxiliary Switch:</b>	Adjustable SPDT snap acting. Factory set to close one contact and open the other at end of clockwise rotation.
<b>Ambient Temperature</b>	
<b>Limits:</b>	-40 to 136°F (-40 to 58°C)
<b>Humidity:</b>	5 to 95% rh, non-condensing.
<b>Case:</b>	Die cast aluminum with two 1/2" conduit knockouts each side.
<b>Mounting:</b>	<b>Damper</b> – upright. <b>Valve</b> – upright with actuator above centerline of valve body.
<b>Dimensions:</b>	7" H x 5-3/8" W x 8-1/8" D (178 mm x 137 mm x 206 mm)

# EA Series Actuators

## Ordering Information

**MODEL E A**   -      -    -  -

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.)
51 -	90°	12 (adj)	60
52 -	180°	25 (adj)	60
53 -	90°	12	60
54 -	180°	25	60
55 -	90°	40 (adj)	220
56 -	180°	80 (adj)	220
57 -	90°	40	220
58 -	180°	80	220
60 -	90°	65	450
61 -	180°	130	450

### Fields 5, 6. Input

Note: Model 658A is a current to position converter; model 659A is a resistance to position converter.

	Input Signal	Converter Model
00 -	Contact	
11 -	4 to 20 mAcd	658A-00001
12 -	4 to 12 mAcd	658A-00002
13 -	12 to 20 mAcd	658A-00003
14 -	2 to 12 mAcd	658A-00004
15 -	2 to 7 mAcd	658A-00005
16 -	7 to 12 mAcd	658A-00006
19 -	Other, Special	658A-00008-000-X-XX*
31 -	Slidewire	659A-00000

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 mAcd	658A-00011
22 -	4 to 12 mAcd	658A-00012
23 -	12 to 20 mAcd	658A-00013
24 -	2 to 12 mAcd	658A-00014
25 -	2 to 7 mAcd	658A-00015
26 -	7 to 12 mAcd	658A-00016
29 -	Other, Special	658A-00018-000-X-XX*
41 -	Slidewire	659A-00010

\*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
- 31 - One 100 Ω rear slidewire, weather resistant
- 32 - Two 100 Ω rear slidewires, weather resistant
- 33 - Three 100 Ω rear slidewires, weather resistant
- 37 - NEMA 4 weather resistant cover. This option must be included if rain tight converter is ordered

### Field 9. Motor Voltage/Frequency

- 0 - 120 Vac 60 Hz
- 1 - 120 Vac 50 Hz (not available with EA52, EA54)
- 3 - 240 Vac 60 Hz
- 4 - 240 Vac 50 Hz (not available with EA53, EA58)
- 5 - 24 Vac 60 Hz (not available with EA51, EA53, EA54 or 658A or 659A)

### 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