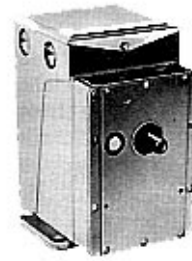


EA Series Actuators

- Low Torque, Gear Train
- Non-Spring Return Actuator – EA20 Series



EA20 Series

Applications are similar to those of high torque and medium torque, except for the torque rating. Low torque models EA21–24 do not have end limit switches. EA21 and EA22 do not have an auxiliary switch. Power consumption is 28 W. Internal 100 Ω feedback slidewire is standard feature. Shipping weight, 8 lbs.

All 60 Hz models except those with weather resistant cover or built-in transformer are UL listed. Specials and 50 Hz models are not UL listed or CSA approved. Weather resistant models are NEMA 4 approved. The following models are CSA approved:

EA21-00003-000-0-00
 EA22-00000-000-0-00
 EA24-00000-000-0-00

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.)
21	90°	12	50 (no auxiliary switch)
22	180°	25	50 (no auxiliary switch)
23	90°	12	50 (includes auxiliary switch)
24	180°	25	50 (includes auxiliary switch)

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 mAdc	658A-00001
12 - 4 to 12 mAdc	658A-00002
13 - 12 to 20 mAdc	658A-00003
14 - 2 to 12 mAdc	658A-00004
15 - 2 to 7 mAdc	658A-00005
16 - 7 to 12 mAdc	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 mAdc	658A-00011
22 - 4 to 12 mAdc	658A-00012
23 - 12 to 20 mAdc	658A-00013
24 - 2 to 12 mAdc	658A-00014
25 - 2 to 7 mAdc	658A-00015
26 - 7 to 12 mAdc	658A-00016
29 - Other, Special.	658A-00018-000-X-XX*
41 - Slidewire	659A-00010

*Consult factory.

EA Series Actuators

Ordering Information (continued)

Fields 7, 8. Options

Options 00 through 07 cannot be combined with rain tight converter. Option 37 must be specified if rain tight converter is ordered.

- 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.

Field 9. Motor Voltage/Frequency

- 0 - 120 Vac 60 Hz
- 3 - 240 Vac 60 Hz (not available with E21, EA23, EA24)
- 4 - 240 Vac 50 Hz (not available with EA23)
- 5 - 24 Vac 60 Hz (not available with EA21, EA23, or with 658A or 659A converter)

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

Specifications

- Control Action:** 1) Floating. Requires SPDT switch with floating (center off) position rated at 0.9 amps.
2) Proportional, electric.
3) Proportional, electronic. Requires 658A converter.
- Connections:** Coded screw terminals.
- Shaft Rotation:** Reversible proportional can stop at any point in the stroke. 180° non-adjust.
- 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 136°F (-40 to 58°C).
- Humidity:** 5 to 95% rh, non-condensing.
- Case:** Die cast aluminum with two 1/2" conduit knockouts each side.
- Mounting:** Upright.
- Dimensions:** 7" H x 5-3/8" W x 6-5/16" D (178 mm x 137 mm x 160 mm)