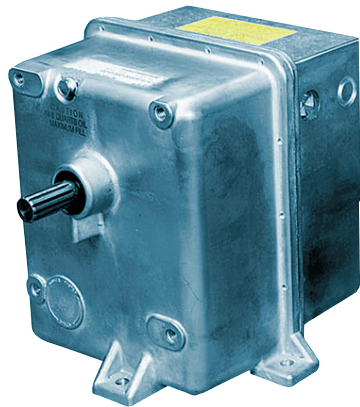


EA70 Standard Series High Torque Non-Spring Return Rotary Actuator



Features

- proportional actuators with built-in feedback potentiometer
- open/close contact closure input
- 120Vac and 240Vac models
- SPDT auxiliary switch standard
- 550, 1100, 1300 in-lbs torque
- compatible with VB series valves

The EA70 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. Standard features include 100Ω feedback slidewire and a single SPDT switch. Weather resistant models are NEMA 4. All models, except those with transformers, are UL/cUL listed. The EA70 is compatible with the VB-7000 and VB-9000 valves in this catalog.

Specifications

Control action:

Floating. Requires SPDT switch with floating (center off) position rated at 3 amps. Proportional electric with slidewire feedback.

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:

-40 to 130 °F (-40 to 54 °C)

Humidity:

5 to 95% RH, non-condensing

Case:

Die cast aluminum with two 1/2" conduit knockouts each side

Motor and gear train:

Oil immersed

Mounting:

Damper – upright recommended
Valve – upright with actuator above center-line of valve body.

Dimensions:

9-9/16" H x 9-1/2" W x 10-1/2" D

Weight:

30 lbs.

Power consumption:

190W

Ordering codes

Model Series	Base Model	Input	Options	Motor Volt Frequency	Transformer	Feedback Slidewire	Logo/Label	Specials
EA								00

Base Model

71	90° travel limit, 20 sec., 550 in-lbs torque
72	180° travel limit, 40 sec., 550 in-lbs torque
73	90° travel limit, 33 sec., 1100 in-lbs torque
74	180° travel limit, 65 sec., 1100 in-lbs torque
75	90° travel limit, 57 sec., 1300 in-lbs torque
76	180° travel limit, 115 sec., 1300 in-lbs torque

Input

00	Contact		
11	4-20mAdc	658A-00001	
12	4-12mAdc	658A-00002	
13	12-20mAdc	658A-00003	
14	2-12mAdc	658A-00004	
15	2-7mAdc	658A-00005	
16	7-12mAdc	658A-00006	
19	Special	658A-00008-x*	
31	4-20mAdc	659A-00000	
			Rain Tight Converters
21	4-20mAdc	658A-00011	
22	4-12mAdc	658A-00012	
23	12-20mAdc	658A-00013	
24	2-12mAdc	658A-00014	
25	2-7mAdc	658A-00015	
26	7-12mAdc	658A-00016	
29	Special	658A-00018-x*	
41	Slidewire	659A-00010	

Transformer

00	None
01	Built-in 120-24Vac†
02	Built-in 240-24Vac†

† Not UL/cUL listed

Logo/Label

0	Barber-Colman
E	Eurotherm

Specials

00	None
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Feedback Slidewire

0	100Ω
1	135Ω
2	500Ω
3	1000Ω

Options

Not NEMA 4 rated

00	None
01	Two auxiliary SPDT switches
02	Four auxiliary SPDT switches
03	Rear shaft
04	100Ω rear slidewire
05	100Ω rear slidewire with two switches
06	1000Ω rear slidewire

NEMA 4 rated

41	One 100Ω rear slidewire and cover, NEMA 4
42	Two 100Ω rear slidewires and cover, NEMA 4
43	Three 100Ω rear slidewires and cover, NEMA 4
37	NEMA 4 weather resistant cover

Motor Volt/Frequency

0	120Vac, 60Hz
1	120Vac, 50Hz (not available w/EA76)
3	240Vac, 60Hz** (available with EA73, EA75 only)
4	240Vac, 50Hz** (available with EA71, EA73, EA75 only)

** Not UL/cUL listed

Model 658A is a current-to-position converter; Model 659A is a resistance-to-position converter.

In order to be weather resistant, rain tight input converters also require cover option 41-43 or 37.

*Consult factory