

EA40 Standard Series Low Torque Spring Return Rotary Actuator



The EA40 spring return actuator will proportionally position a fuel valve, butterfly valve, damper and other similar devices. The output shaft is power operated in both directions. An internal electrical holding circuit maintains the proper damper position at setpoint. The enclosed spring drives the output shaft and gear train to return the damper to a normal position on power interruption. Standard features include 100Ω internal feedback slidewire and single internal SPDT switch. All models are UL/cUL listed. The EA40 is compatible with the VB-7000 and VB-9000 valves in this catalog.

Features

- proportional actuators with built-in feedback potentiometer
- open/close contact closure input
- 24Vac, 120Vac and 240Vac
- 50 in-lbs torque
- compatible with VB series valves

Specifications

Control action:

Floating. Requires SPDT switch with floating (center off) position rated at 0.9 amps. Proportional electric with slidewire feedback.

Connections:

Coded screw terminals

Shaft rotation:

Reversible proportional can stop at any point in the stroke. Adjustable 45-320°

Spring return:

To normal position on power interruption

Auxiliary switch:

Adjustable SPDT snap acting. Factory set to close one contact and open other at end of clockwise rotation.

Ambient temperature:

-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

Motor and gear train:

Oil immersed

Mounting:

Damper - upright

Valve - upright with actuator above CL of valve body.

Dimensions:

7" H x 5-3/8" W x 8-1/8" D

Power consumption:

40W

Weight:

8 lbs.

Ordering codes

Model Series	Base Model	Input	Options	Motor Volt Frequency	Reserved	Feedback Slidewire
EA					00	

Logo/Label	Specials

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 37.

*Consult factory

Base Model		Options	Feedback Slidewire
41	90° travel limit, 45 sec., 50 in-lbs torque, CW return	00 None 37 NEMA 4 weather resistant cover	0 100Ω 1 135Ω 2 500Ω 3 1000Ω
42	180° travel limit, 90 sec., 50 in-lbs torque, CW return		
44	180° travel limit, 90 sec., 50 in-lbs torque, CCW return		

Motor Volt/Freq	
0	120Vac 60Hz
3	240Vac 60Hz**
4	240Vac 50Hz**
5	24Vac 60Hz**

Logo/Label	
0	Barber-Colman
E	Eurotherm

Specials	
00	None

**Not available with EA41

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
21	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