

EA50-A Series Analog Input Medium Torque Non-Spring Return Rotary Actuators



EA50-A series actuators are ideal for proportional position of fuel valves, butterfly valves, dampers and similar devices. EA52-A and EA56-A models have an adjustable hydraulic brake that provides up to a 10:1 speed reduction. A constantly powered field winding serves as an electric brake to hold the actuator in position when no movement is required. These actuators stay in position when power is removed. The EA50-A is compatible with the VB-7000 and VB-9000 valves in this catalog.

Features

- analog input proportional control signal
- 24Vac, 120Vac and 240Vac models available
- switch selectable 90° or 180° stroke
- adjustable speed in some models
- 60 or 220 in-lbs torque
- compatible with VB series valves

Specifications

Torque:

60 or 220 in-lbs

Dimensions:

7" H x 5-3/8" W x 6-5/16" D

Weight:

8 lbs

Case:

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

Motor and gear train:

Oil immersed

Ambient temperature:

-40 to 136°F (-40 to 58°C)

Humidity:

5 to 95% RH, non-condensing

Power consumption:

45W

Mounting:

Damper – Upright recommended
Valve – Any upright position with actuator above centerline of valve body

Ordering codes

Model Series	Base Model	Control Input	Reserved	Options	Volts/Freq
EA		A	0		

Reserved	Feedback Slidewire	Logo/Label	Specials
00	3		00

Base Model	
52	25 sec. (adjustable), 60 in-lbs torque
54	25 sec., 60 in-lbs torque
56	80 sec. (adjustable), 220 in-lbs torque
58	80 sec., 220 in-lbs torque

Control Input	
A	Analog input proportional control

Options	
Not NEMA 4 rated	
01	2 aux. SPDT switches
02	4 aux. SPDT switches
03	Rear Shaft
04	100Ω rear slidewire
05	100Ω rear slidewire, 2 switches
06	1000Ω rear slidewire
NEMA 4 rated	
31	100Ω rear slidewire and cover, NEMA 4
32	Two 100Ω rear slidewires and cover, NEMA 4
33	Three 100Ω rear slidewires and cover, NEMA 4
37	NEMA 4 cover (factory standard)

Voltage/Frequency	
0	120Vac, 60Hz
1	120Vac, 50Hz
3	240Vac, 60Hz
4	240Vac, 50Hz
5	24Vac, 60Hz

Slidewire	
3	1000 Ω

Logo/Label	
0	Barber-Colman
E	Eurotherm

Specials	
00	None