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

Features

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

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.

Ordering codes

Model Series	Base Model		Control Input	Reserved	Options	Volts/Freq		Reserved	Feedback Slidewire	Logo/Label		Specials
EA		–	A	0			–	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		NEMA 4 rated	
01	2 aux. SPDT switches	31	100Ω rear slidewire and cover, NEMA 4
02	4 aux. SPDT switches	32	Two 100Ω rear slidewires and cover, NEMA 4
03	Rear Shaft	33	Three 100Ω rear slidewires and cover, NEMA 4
04	100Ω rear slidewire	37	NEMA 4 cover (factory standard)
05	100Ω rear slidewire, 2 switches		
06	1000Ω rear slidewire		

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

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