

EA12 Two Position Spring Return Rotary Actuator



The Model EA12 actuator is a spring return gear driven crankshaft actuator for two position operation of dampers, valves or other equipment that requires return to normal position upon power interruption. The hardened steel crankshaft is driven through a train of precision hobbled gears. The actuator is driven by a shaded pole motor that is completely submerged in oil and sealed in an aluminum case to assure long life and minimum maintenance. The gear train of the EA12 crank actuator is also sealed in oil. Working in conjunction with primary loop controllers, these power units are ideal for ON-OFF control of valves and dampers. The EA-12 travel time is 20 seconds and its travel limit is 170 degrees clockwise. The spring return is counterclockwise to the original position when de-energized.

The Model EA12-00000-000-0-00 is UL/CSA listed. All others models are UL/cUL listed. EA12 is compatible with the VB-7000 and VB-9000 valves in this catalog.

Features

- spring return two position operation
- 60 in-lbs torque – 20 sec travel
- oil immersed motor and gear train
- compatible with VB series valves

Specifications

Control action:

2 Wire, ON-OFF

Torque:

60 in-lbs – 20 sec no load travel time

Shaft rotation:

CW 170° – 20 Seconds when power applied

Dimensions:

5-3/4" H x 5-3/8" W x 6-9/16" D

Weight:

7lbs.

Case :

Die cast aluminum with 2 conduit openings

Ambient temperature:

-40 to 136°F (-40 to 58°C)

Humidity:

5 to 95% RH, non-condensing

Power consumption:

70 watts running, 25 watts holding

Mounting:

Output shaft horizontal. Allow 6" (152mm) clearance above wiring compartment

Auxiliary switch (optional):

SPDT – makes or breaks circuit at powered end of stroke

120Vac – 2A full load, 12A locked rotor

240Vac – 1A full load, 6A locked rotor

Ordering codes

Model Series	Base Model	Reserved	Options	Volts/Freq
EA	12	00		

Reserved	Logo/Label	Specials
000		00

Options	Logo/Label
00 None	0 Barber-Colman
08 One auxiliary SPDT switch	E Eurotherm
Volts/Frequency	Specials
0 120Vac, 60Hz	00 None
3 240Vac, 60Hz	
5 24Vac, 60Hz	