

OpenAir™ GLB Series

Electronic Damper Actuator Non-Spring Return

Easily Replaces:

- Belimo NM Series



88 lb.-in. Torque

24 Vac/dc, 2-Position/Floating Control
100 to 240 Vac, 2-Position/Floating Control
0 to 10 Vdc, Modulating Control



GLB Series Non-Spring Return
Electronic Damper Actuator.

Description

The OpenAir GLB Series Direct-coupled Non-Spring Electronic Actuator is designed for 0 to 10 Vdc or floating control of building HVAC dampers.

Features

Enhanced Features

- 141 models perform both 2-position and floating control
- Selectable modulating control (0 to 10 Vdc or 2 to 10 Vdc)
- 24 Vac/dc compatible
- Line voltage 341 models for 100 to 240 Vac 2-position/floating control
- Integral 1/2 inch conduit connection (No conduit on auxiliary switch types – use ASK76.1U bracket)

Standard Features

- Compact design
- Easy-to-see position indicator
- Self-adapting capability for maximum flexibility in damper positioning
- UL, cUL, CE listed
- Quiet operation
- Rugged all metal housing, rated NEMA 2
- Assembled in the U.S.A.
- Manual override
- Plenum-rated cable
- Modulating actuators contain built-in feedback
- Energy efficient

Options

- Independently adjustable dual auxiliary switches
- Adjustable start/span
- Potentiometer on 2-position/floating control

Applications

The OpenAir GLB Series Damper Actuators are used in constant or variable air volume installations for the control requiring up to 88 lb.-in. (10 Nm) torque.

B-31

Damper Actuators

SIEMENS



* Intelligent VAV actuators offer a 2-year warranty.

usa.siemens.com/hvac

Specifications

Operating Voltage	24 Vac/dc 100 to 240 Vac (GLB34x)
Frequency	50 to 60 Hz
Power Consumption	
GLB14x	
Running	2.2 VA (1.3 W)
GLB34x	
Running	5.8 VA (1.9 W)
GLB16x	
Running	2.5 VA (1.5 W)
Input Signal (8-2)	
Voltage-Input	0(2) to 10 Vdc
Input Resistance.....	100K Ohms
Position Output Signal (9-2)	
Voltage-Output	0(2) to 10 Vdc
Max. Output Current.....	1 mA
Equipment Rating for Operating Voltage, Input Signal, and Position Output Signal	Class 2
Dual Auxiliary Switch	
Contact Rating	4 A resistive, 2 A General Purpose
Voltage	24 Vac
Switch Range	
Switch A.....	0° to 90° with 5° intervals
Recommended Range Usage	0 to 45°
Factory Setting	5°
Switch B.....	0° to 90° with 5° intervals
Recommended Range Usage	45° to 90°
Factory Setting	85°
Switching Hysteresis	3°

Function	
Torque88 lb.-in. (10 Nm)
at 50/60 Hz	125 sec.
Nominal Angle of Rotation.....	90°
Max. Angular Rotation	95°
Shaft Dimensions	3/8 to 5/8-in. (8 to 16 mm) Dia. 1/4 to 1/2-in. (6 to 13 mm) Sq.
Min. Shaft Length	3/4-in. (20 mm)
Housing Enclosure	NEMA 2
Material	Plenum Rated Rugged Plastic
Temperature	
Operation.....	-25°F to 130°F (-32°C to 55°C)
Storage and Transport.....	-40°F to 158°F (-40°C to 70°C)
Humidity	95% RH, non-condensing
Agency Approvals	UL873 cUL C22.2 No. 24-93 CE
Pre-cabled Connection	AWG 18
Cable Length	3 ft. (0.9 m)
Dimensions	6.6" H x 2.7" W x 2.3" D (167 mm H x 68 mm W x 59.2 mm D)
Weight	1.35 lb. (0.61 kg)

B-32

Refer to page B-30 for Dimensions.

Damper Actuators

Product Ordering

Input Signal	Cabling	Part No.	
		Standard	Dual Aux. Switches Only
Enhanced Models			
2-position/Floating, 24 Vac/dc	3' Plenum Cable	GLB141.1P	GLB146.1P
	6' Plenum Cable	GLB141.1Q	—
2-position/Floating, 100 to 240 Vac	Standard	GLB341.1U	GLB346.1U
0(2) to 10 Vdc	3' Plenum Cable	GLB161.1P	GLB166.1P
	6' Plenum Cable	GLB161.1Q	—

Accessories & Service Kits

B-77