

Customizable Non Fail-Safe modulating actuator for controlling dampers in typical commercial HVAC applications.

- Torque motor 45 in-lb [5 Nm]
- Nominal voltage AC/DC 24 V
- Control modulating
- Position feedback 2...10 V



Technical data sheet





Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	1.5 W
	Power consumption in rest position	0.4 W
	Transformer sizing	3 VA
	Electrical Connection	Screw terminal (for 26 to 14 GA wire)
	Overload Protection	electronic throughout 095° rotation
Functional data	Torque motor	45 in-lb [5 Nm]
	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
	Input impedance	100 kΩ (0.1 mA), 500 Ω
	Position feedback U	210 V
	Position feedback U note	Max. 0.5 mA
	Direction of motion motor	selectable with switch 0/1
	Manual override	external push button
	Angle of rotation	Max. 95°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	95 s / 90°
	Running time motor note	constant, independent of load
	Running time motor variable	35, 45, 60, 150 s
	Noise level, motor	35 dB(A)
	Position indication	Mechanical, 3065 mm stroke
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP20
	Degree of protection NEMA/UL	NEMA 1
	Enclosure	UL Enclosure Type 1
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02 CE acc. to 2014/30/EU and 2014/35/EU
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	0.62 lb [0.28 kg]



Technical data sheet

Materials	Housing material	UL94-5VA
Product features		
Application	For On/Off and floating point control of dampers in HVAC systems. Actuator sizing should be done in accordance with the damper manufacturer's specifications.	
		y to a damper shaft from 1/4" up to 5/8" in diameter by means o afts up to 3/4" diameter can be accommodated by an accessory
Operation		th and does not require any limit switches, but is electronically anti-rotation strap supplied with the actuator will prevent
	When reaching the damper or a	rotation and a visual indicator indicates position of the actuator. actuator end position, the actuator automatically stops. The ged with a button on the actuator cover.
	Application Specific Integrated (rotation and provides a digital r	a sensorless brushless DC motor, which is controlled by an Circuit (ASIC). The ASIC monitors and controls the actuator's rotation sensing (DRS) function to prevent damage to the wer consumption is reduced in holding mode.
	Add-on auxiliary switches or fee actuator body for signaling and	edback potentiometers are easily fastened directly onto the switching functions.
Typical specification	Proportional control damper actuators shall be electronic direct-coupled type, which require no crank arm and linkage and be capable of direct mounting to a shaft from 1/4" to 5/8" diameter. Actuators must provide contorl in response to a control input from an electronic controller or positioner. Actuators shall have brushless DC motor technology and be protected from overload at all angles of rotation. Actuators shall have reversing switch and manual override on the cover. Run time shall be constant and independent of torque. Actuators shall be cULus listed, have a 5-year warranty, and be manufactured under ISO 9001 International Quality Control Standards. Actuators shall be as manufactured by Belimo.	
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