SIEMENS

OpenAir[™] GQD Series, Spring Return, 20 lb-in (2 Nm), Rotary **Electronic Damper Actuators**

	Torque	Voltage		Control Signals			g	ole	ch
Product Number*	20 lb-in	24 Vac/dc	120 Vac	2-Position	Floating	Modulating 2 to 10 Vdc/ 10 to 2 Vdc	Plenum Cabling	Appliance Cable	Auxiliary Switch
GQD121.1P	~	~	_	1	_	—	~	—	_
GQD126.1P	~	2		ł		—	~		1
GQD131.1P	~	1	-		ł		~		
GQD136.1P	~	~			2	—	~		2
GQD151.1P	~	1	-			2	~		
GQD156.1P	~	~		_		2	~		1
000100.11						_		٢	
GQD221.1U	~		~	2		—	—	_	—

20 lb-in (2 Nm)

15 seconds typical

1.06 lbs (0.48 kg)

30 seconds

90° typical

* Add /B to part number to order a bulk pack of 10.

Technical Data

Torque Runtime for 90° Spring Return Nominal angle of rotation Power consumption:

		Running	Holding			
24 Vac ±20%/ 24 Vdc ±15%						
	GQD12x	6.5 VA (4.5W)	4 VA (2.5W)			
	GQD13x	4 VA (2.5W)	3 VA (1.5W)			
	GQD15x	4.5 VA (3W)	3.5 VA (2W)			
120 Vac ±15%						
	GQD22x	10 VA	7 VA			
Damper shaft size		3/8-inch to 1/2- (8 mm to 13 mi 1/4-inch to 7/16 (6 mm to 11 mi	m) 5-inch square			
Damper shaft size, minir	num	3/4-inch (20 mm) minimum length				
Agency listings		UL listed to UL cUL listed; CE				
120 Vac		EMC and Low	Voltage Directives			
Ambient temperature Operating		-25°E to 130°E	- (–32°C to 55°C)			
Storage/transport		-40°F to 158°F (-40°C to 70°C)				
Ambient humidity (non-c	ondensing)	95% rh (non-condensing)				
Pre-cabled connection	s		mm ²), 3 ft (0.9m) long			
Enclosure		NEMA 1	,, - · () - J			
Housing material		Plenum rated rugged plastic				
Dimensions:		4-23/32" × 2-22	2/32" × 2-15/32"			
		(120 mm × 69	mm × 63 mm)			
GQD221.1U (only)		5-1/2" × 2-22/3	2" × 2-15/32"			
GQDxx6 w/conduit	adapter	(138.5 mm × 6 6-3/16" × 2-22/ (156.7 mm ×69				
		`				

Weight

Description

The OpenAir GQD Series direct-coupled, spring return rotary electronic damper actuators are 24 Vac/dc rated and available in 2-position, floating, and modulating (2 to 10 Vdc) control. The small footprint and torque make this actuator ideal for small HVAC dampers, economizers, or residential zone dampers requiring fail-safe operation.

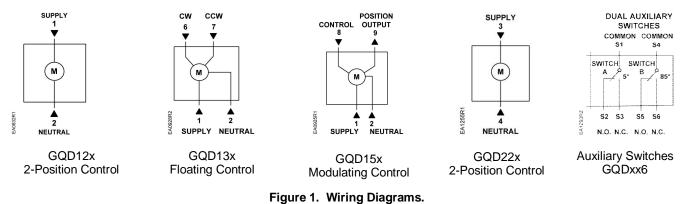


Features

- Bi-directional, fail-safe spring return
- Pre-cabled
- Plenum rated models available
- Optional built-in auxiliary switches with fixed switch points at 5° and 85° rotation
- Fast run time
- Signal inversion capability on modulating type (2 to 10 Vdc or 10 to 2 Vdc)
- Small footprint for installation flexibility
- UL and cUL listed; CE certified
- These devices were approved for installation in plenum areas by Underwriters Laboratories, Inc. per UL 1995.
- Low voltage models are 24 Vac/dc compatible
- 120 Vac, 1/2" NPT conduit, model available

Fixed Dual End Switches 24 Vdc, 24 Vac to 250 Vac 6A resistive 2FLA/12 LRA SPST Fixed 5° and 85°

Wiring Diagrams



Dimensions in Inches (Millimeters)

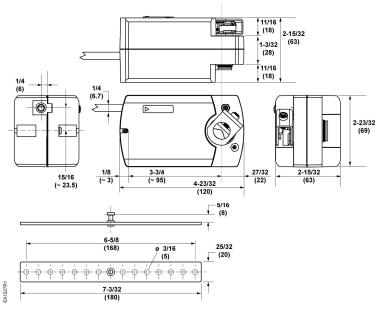
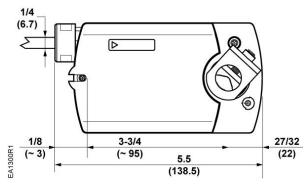
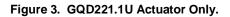


Figure 2. GQD1x1 Actuator and Mounting Bracket.





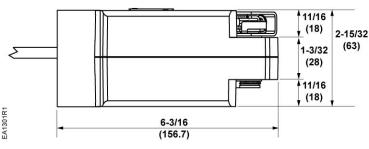


Figure 4. GQDxx6 with Conduit Adapter.

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