



# OpenAir

Air damper actuators for power and flexibility





## For a comfortable working and living environment

Consultants, wholesalers, system houses, craftsmen, building owners, operators and the environment take advantage of the technology and reliability offered by the OpenAir™ damper actuators from Siemens, which have been leading the way for over 20 years. Building automation can only function correctly if each component in the system operates reliably and accurately. The damper actuators are of modular design and excel not only in low power consumption. They increase the flexibility of the application areas and enable fast implementation of customer requirements, thus ensuring secure and sustained added value of HVAC plant.



■ **Complete product range for all types of application**

OpenAir damper actuators are reliable, powerful solutions for recirculated air, outside air, shutoff, smoke extraction and fire protection dampers, blinds as well as VAV devices, central and compact air conditioning units.

■ **Faster installation – lower overall costs**

With standardized dimensions, wiring and mounting concepts, OpenAir damper actuators are designed for direct connection and straightforward commissioning. This results in savings when it comes to installation expenses. All actuator models are secured with a single fixing screw. The high-torque actuators are equipped with a self-centering shaft adapter, which can be fitted from both sides. This offers the advantage that the actuator can also be easily fitted to short shafts. This patented design does not allow the actuator to move in the longitudinal holder, thus preventing friction and cracking noises.

■ **Rugged housing for added durability and longevity**

First-class engineering has made it possible to design the OpenAir damper actuators with very compact dimensions. They are easy to handle and very resistant to the rough conditions encountered during transportation, storage and on the construction site.

■ **Motors with low noise level**

The sturdy design, brushless motors and gear-trains that have already been run in ensure low-noise operation. Thus, the OpenAir damper actuators are suited for use in commercial buildings, hotels, hospitals, office buildings, schools and public buildings.

■ **Certified production for high quality**

Siemens meets the stringent ISO 9001 and ISO 14001 standards, thus satisfying the requirements of a closed quality and ecological cycle. High quality and simple design are of prime concern from development all the way through to disposal. The actuators are produced based on the subassembly principle and undergo integral testing. Each actuator is subjected to extensive final testing after assembly is completed. The OpenAir damper actuators conform to the CE, C-Tick and UL standards and are therefore suited for worldwide use.

■ **Fast delivery**

Siemens' global sales network ensures fast and uncomplicated delivery.

■ **Excellent price / performance ratio**

OpenAir damper actuators provide the best price / performance ratio due to their compact dimensions, exactly calculable size, precise functioning and good price.

**Highlights**

- Complete product range for any type of application
- Quick installation - low overall costs
- Rugged housing for added durability
- Motors with low noise level
- Certified production for high quality
- Fast delivery
- Best price / performance ratio



# Actuators for ventilation

Rotary actuato

With spring-return











	GCA	GMA	GQD	GIB	GBB
<b>Product line</b>	GCA	GMA	GQD	GIB	GBB
<b>Torque</b>	18 Nm	7 Nm	2 Nm	35 Nm	25 Nm
<b>Force</b>					
<b>Damper surface</b>	3.0 m <sup>2</sup>	1.5 m <sup>2</sup>	0.3 m <sup>2</sup>	6.0 m <sup>2</sup>	4.0 m <sup>2</sup>
<b>Nominal angular rotation</b>	90°	90°	90°	90°	90°
<b>Nominal stroke</b>					
<b>Operating voltage AC 24 V</b>	■	■	■	■	■
<b>Operating voltage DC 24 V</b>	■	■	■		
<b>Operating voltage AC 230 V</b>	■	■	■	■	■
<b>Frequency</b>	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
<b>2-position control signal</b>	■	■	■		
<b>3-position control signal</b>	■	■	■	■	■
<b>Control signal DC 0...10 V</b>	■	■	■	■	■
<b>Feedback signal DC 0...10 V</b>	■	■	■	■	■
<b>Feedback signal 0...1000 Ohm</b>	■	■		■	■
<b>2 built-in adjustable auxiliary switches</b>	■	■		■	■
<b>Running time open / close (50 Hz)</b>	90 s	90 s	< 19 s / 30 s	150 s	150 s
<b>Closing time with spring</b>	15 s	15 s	15 s		
<b>Dimensions, round damper shaft</b>	8...25.6 mm	6.4...20.5 mm	8...15 mm	8...25.6 mm	8...25.6 mm
<b>Dimensions, square damper shaft</b>	6...18 mm	6.4...13 mm	6...11 mm	6...18 mm	6...18 mm



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Without spring-return

Linear actuators

							
GEB	GLB	GDB	GSD	GBB	GEB	GLB	GDB
15 Nm	10 Nm	5 Nm	2 Nm	550 N	400 N	250 N	125 N
3.0 m <sup>2</sup>	1.5 m <sup>2</sup>	0.8 m <sup>2</sup>	0.3 m <sup>2</sup>	4.0 m <sup>2</sup>	3.0 m <sup>2</sup>	1.5 m <sup>2</sup>	0.8 m <sup>2</sup>
90°	90°	90°	90°				
■	■	■	■	70 mm	60 mm	60 mm	60 mm
■	■	■	■	■	■	■	■
50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■
150 s	150 s	150 s	< 19 s	150 s	150 s	150 s	150 s
6.4...20.5 mm	8...16 mm	8...16 mm	8...15 mm				
6.4...13 mm	6...12.7 mm	6...12.7 mm	6...11 mm				



# Actuators for air volume controllers

OpenAir compact air volume controllers work with the highest degree of precision and stability and allow for fast and simple parameterization. Convenience – from installation to use.



Type reference	GLB181.1E/3	GDB181.1E/3	ASV181.1E/3
Nominal pressure	300 Pa	300 Pa	300 Pa
Torque	10 Nm	5 Nm	
Damper surface	1.5 m <sup>2</sup>	0.8 m <sup>2</sup>	
Nominal angular rotation	90°	90°	
Operating voltage AC 24 V	■	■	■
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
3-position control signal	■	■	■
Control signal DC 0...10 V	■	■	■
Feedback signal DC 0...10 V	■	■	■
Running time open / close (50 Hz)	150 s	150 s	
Dimensions, round damper shaft	8...16 mm	8...16 mm	
Dimensions, square damper shaft	6...12.7 mm	6...12.7 mm	

## Highlights

- High level of precision due to static measured value acquisition
- No aging and temperature drift as well as location independence due to automatic zero point calibration
- Easiest adjustment to VAV devices

# Actuators for fire protection dampers

OpenAir actuators for fire protection dampers are at the interface between highly integrated security systems and people. They work extremely reliably even in emergency situations. Fire and smoke remain at their source – for absolute safety.



Product line	GGA	GNA
Torque	18 Nm	7 Nm
Damper surface	2.5 m <sup>2</sup>	1.0 m <sup>2</sup>
Nominal angular rotation	90°	90°
Operating voltage AC 24 V	■	■
Operating voltage DC 24 V	■	■
Operating voltage AC 230 V	■	■
Frequency	50 / 60 Hz	50 / 60 Hz
2-position control signal	■	■
2 built-in auxiliary switches	■	■
Running time open / close (50 Hz)	90 s	90 s
Closing time with spring	15 s	15 s
Dimensions, square damper shaft	8,10,12,15 mm	8,10,12,15 mm
Thermal cut-out	■	■

## Highlights

- Powerful 7 or 18 Nm for opening and closing
- 2 powerful torques for additional safety
- Secure, easy-to-mount positive shaft collet (square)



The complete range of OpenAir damper actuators from Siemens – reliable, powerful and rugged for your secure long-term investment.

## Welcome to the world of innovative thinking

### ■ Innovation

Siemens invests a great deal in both manpower and research and development. This results in a steady stream of insights, technologies and inventions that enable us to improve the reliability of our products and systems, ensuring the securest products and making our systems even more simple and convenient to operate.

### ■ Reliability

With a history of over hundred years, if you need an established, reliable partner you are in the very best of hands with Siemens. System expansions and upgrades can be continuously made over a period of years, which ensures your investment for the future.

### ■ Comfort

Siemens products and solutions ensure comfort in your working and living environments. Today, tomorrow and for decades to come. That's why numerous customers around the world rely on Siemens.

### ■ Energy and ecological efficiency

Siemens helps save energy, protect our resources and reduce harmful emissions.



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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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