

363-024-20

Rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

Torque Motor
 Nominal Voltage
 Control
 Valve size
 20 Nm
 24 VAC/DC
 2/3 Point
 up to approx. 4 m²

• Damper coupling Clamp

◊ 9-18 mm/ Ø 9-26 mm



Technical data

Nominal voltage	Nominal voltage	24 VAC (50/60Hz), 24 VDC
	Nominal voltage range	1929 VAC/DC
	Power consuption Motor (Motion)	3,0 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	4,5 VA
	Control	2/3-point
	Position feedback	-
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection Motor	Cable 1000 mm, 3 x 0,75mm ² (halogen free)
	Connection Auxiliary switch	-
	Connection Position feedback	-
	Connection GUAC	-
Functional data	Torque Motor	>20 Nm
	Synchronised speed	± 5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged with pushbutton,
		self-resetting
	Angle of rotation	0° max. 95°, can be limited
		with adjustable mechanical end stop
	Running time Motor	<150 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	clamp
		♦ 9-18 mm/ Ø 9-26 mm
	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 95° - 0°)
Safety	Protection class	III (low voltage safety current)

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Safety	Degree of protection	IP54 in any mounting position
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	0,8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature Normal operation	−30 +50°C
	Storage temperature	−30 +80°C
	Ambient humidity	595% r.F.,
		non- condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1700 g

Operating mode / Properties

Operating mode

2- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0.

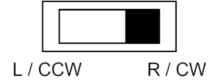
The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

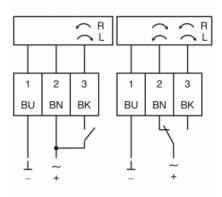
Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)



Rotary direction switch

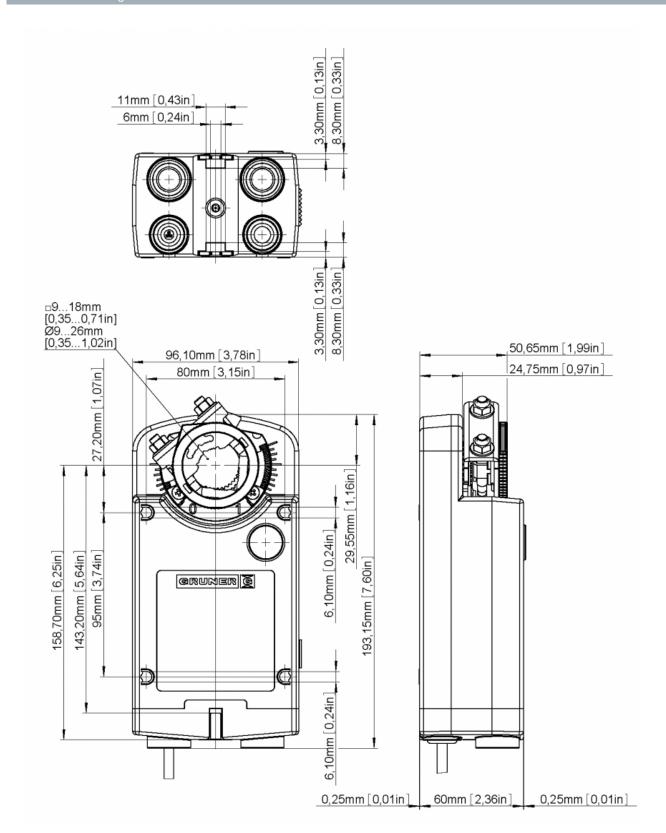


Connection / Safety remarks



- -Connect via safety isolation transformer -The actuator is not allowed to be used
- The actuator is not allowed to be used outside the specified field of application, especially in airplanes.
- -In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross- section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.









363-230-20

Rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

Torque Motor
 Nominal Voltage
 Control
 Damper size
 20 Nm
 230 VAC/DC
 2/3 Point
 up to approx. 4 m²

• Damper coupling Clamp

◊ 9-18 mm/ Ø 9-26 mm



Technical data

Nominal voltage	Nominal voltage	230 VAC (50/60 Hz), 230 VDC
	Nominal voltage range	85265 VAC/DC
	Power consuption Motor (Motion)	3,0 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	7,0 VA
	Control	2/3-point
	Position feedback	-
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection Motor	Cable 1000 mm,
		3 x 0,75 mm ²
		(halogen free)
	Connection Auxiliary switch	-
	Connection Position feedback	-
	Connection GUAC	-
Functional data	Torque Motor	>20 Nm
	Synchronised speed	±5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged with pushbutton,
		self-resetting
	Angle of rotation	0° max. 95°, can be limited
		with adjustable mechanical end stop
	Running time Motor	<150 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp
		♦ 9-18 mm / Ø 9-26 mm
	Position indication	mechanical with pointer

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Functional data	Service life	>60'000 cycles (0° - 95° - 0°)
Safety	Protection class	II (double insulation)
	Degree of protection	IP54 in any mounting position
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	4 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature Normal operation	−30 +50°C
	Storage temperature	−30 +80°C
	Ambient humidity	595% r.F.,
		non- condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1'700 g

Operating mode / Properties

Operating mode

2- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

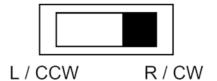
Direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

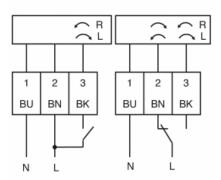
Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

Rotary direction switch



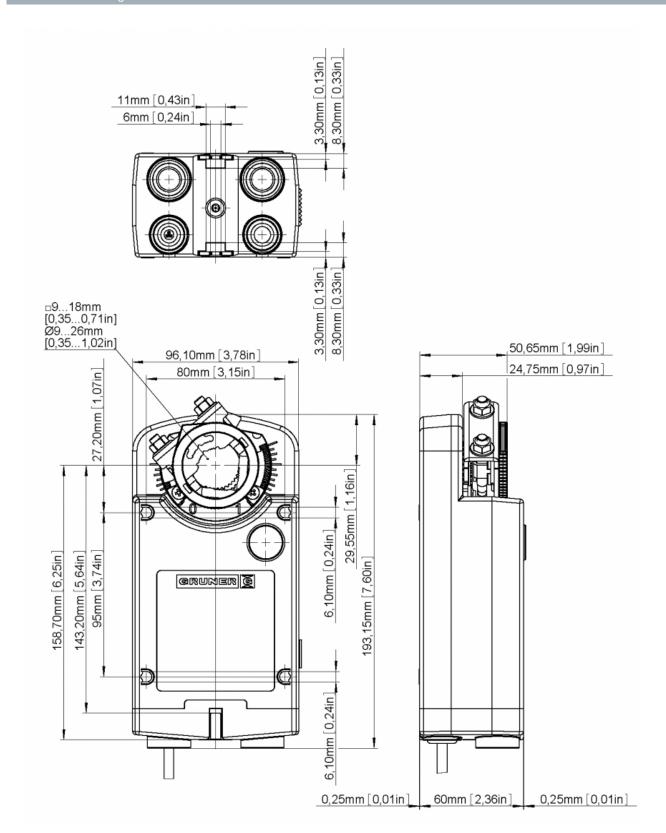


Connection / Safety remarks



- -Attention mains voltage
- -The actuator is not allowed to be used outside the specified field of application, especially in airplanes.
- -In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross- section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.









363-024-20-S2

Rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

20 Nm • Torque Motor 24 VAC/DC Nominal Voltage 2/3 Point Control 2x freely adjustable

 Connection **Auxiliary switch**

 Valve size up to approx. 4 m²

Damper coupling

◊ 9-18 mm / Ø 9-26 mm



Nominal voltage	Nominal voltage	24 VAC (50/60Hz), 24 VDC
	Nominal voltage range	1929 VAC/DC
	Power consuption Motor (Motion)	3,0 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	4,5 VA
	Control	2/3-point
	Position feedback	-
	Auxiliary switch	2 x SPDT (Ag)
	Contact load	5 (2,5) A, 250 VAC
	Switching point	095°
	Connection Motor	Cable 1000 mm, 3 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	Cable 1000 mm, 6 x 0,75 mm ² (halogen free)
	Connection Position feedback	-
	Connection GUAC	-
Functional data	Torque Motor	>20 Nm
	Synchronised speed	± 5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged
		with pushbutton,self-resetting
	Angle of rotation	0° max. 95°, can be limited
		with adjustable mechanical end stop
	Running time Motor	<150 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp
		♦ 9-18 mm / Ø 9-26 mm
	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 95° - 0°)
Safety	Protection class	III (low voltage safety current)



Safety	Degree of protection	IP54 in any mounting position
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	0,8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature Normal operation	−30 +50°C
	Storage temperature	−30 +80°C
	Ambient humidity	595% r.F.,
		non-condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1700 g

Operating mode / Properties

Operating mode

2- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Signaling

The two integrated auxiliary switches are freely adjustable in the angle of 0 – 95°. These are activated corresponding to the adjusted angle. The damper position can be checked by the mechanical pointer.

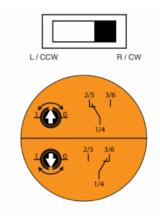
Direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

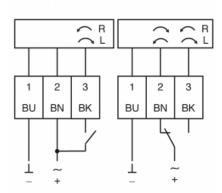
Manual override

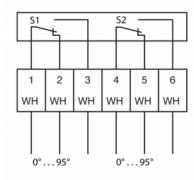
Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

Rotary direction switch



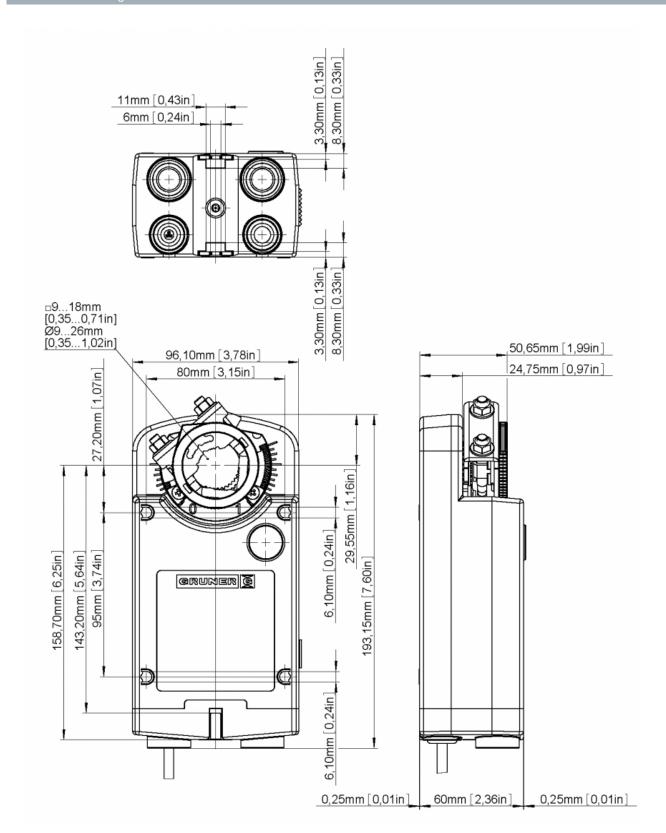






- -Connect via safety isolation transformer -The actuator is not allowed to be used
- outside the specified field of application, especially in airplanes.
- -In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross-section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.









363-230-20-S2

Rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

Torque Motor
 Nominal Voltage
 Control
 Connection
 20 Nm
 230 VAC/DC
 2/3 Point
 2x freely adjustable

Auxiliary switch

Valve size up t

• Damper coupling

up to approx. 4 m²

◊ 9-18 mm / Ø 9-26 mm



Technical data

Nominal voltage	Nominal voltage	230 VAC (50/60Hz), 230 VDC
	Nominal voltage range	85265 VAC/DC
	Power consuption Motor (Motion)	3,0 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	7,0 VA
	Control	2/3-point
	Position feedback	-
	Auxiliary switch	2 x SPDT (Ag)
	Contact load	5 (2,5) A, 250 VAC
	Switching point	095°
	Connection Motor	Cable 1000 mm, 3 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	Cable 1000 mm, 6 x 0,75 mm ² (halogen free)
	Connection Position feedback	-
	Connection GUAC	-
Functional data	Torque Motor	>20 Nm
	Synchronised speed	± 5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged
		with pushbutton,self-resetting
	Angle of rotation	0° max. 95°, can be limited
		with adjustable mechanical end stop
	Running time Motor	<150 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp
		♦ 9-18 mm / Ø 9-26 mm
	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 95° - 0°)
Safety	Protection class	II (double insulation)

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Safety	Degree of protection	IP54 in any mounting position
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	4 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature Normal operation	−30 +50°C
	Storage temperature	−30 +80°C
	Ambient humidity	595% r.F.,
		non-condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1'700 g

Operating mode / Properties

Operating mode

2- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Signaling

The two integrated auxiliary switches are freely adjustable in the angle of 0 – 95°. These are activated corresponding to the adjusted angle. The damper position can be checked by the mechanical pointer.

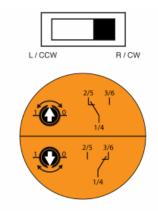
Direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

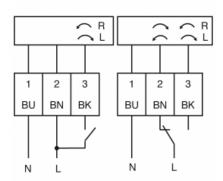
Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

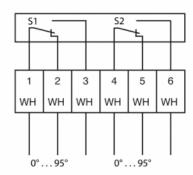
Rotary direction switch





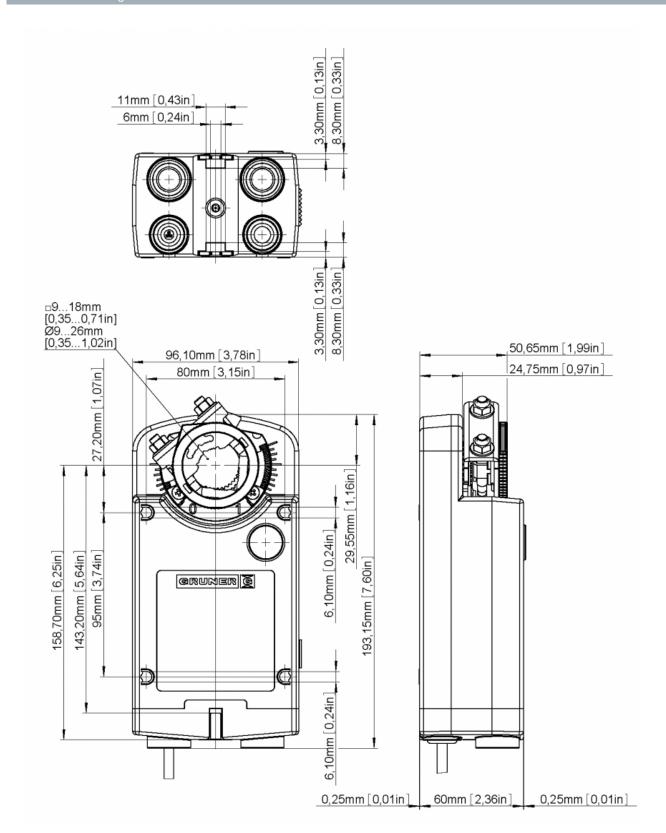
Connection / Safety remarks





- -Attention mains voltage
- -The actuator is not allowed to be used outside the specified field of application, especially in airplanes.
- -In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross- section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.









363C-024-20

Continuous control rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

Torque MotorNominal Voltage20 Nm24 VAC/DC

Control
 Valve size
 Damper coupling
 Continuous DC 0(2)...10 V
 up to approx. 4 m²
 Clamp

♦ 9-18 mm/ Ø 9-26 mm



Technical data

Nominal voltage	Nominal voltage	24 VAC (50/60Hz), 24 VDC
	Nominal voltage range	1929 VAC/DC
	Power consuption Motor (Motion)	3,0 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	4,5 VA
	Control	Continuous
		0(2)10 VDC / Ri > 100 kΩ
		$0(4)20 \text{ mA} / \text{Rext.} = 500 \Omega$
	Position feedback	0(2)10 VDC, max 5 mA
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection Motor	Cable 1000 mm, 4 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	-
	Connection Position feedback	-
	Connection GUAC	-
unctional data	Torque Motor	>20 Nm
	Synchronised speed	± 5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged with pushbutton,
		self-resetting
	Angle of rotation	0° max. 95°, can be limited
		with adjustable mechanical end stop
		Adaption of operating range
		to match the mechanical angle of rotation.
	Running time Motor	<150 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp
		♦ 9-18 mm / Ø 9-26 mm



Functional data	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 95° - 0°)
		>1'000'000 partial cycles (max. ±5°)
Safety	Protection class	III (low voltage safety current)
	Degree of protection	IP54 in any mounting position
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	0,8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature Normal operation	−30 +50°C
	Storage temperature	−30 +80°C
	Ambient humidity	595% r.F.,
		non- condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1700 g

Operating mode / Properties

Operating mode

Through connecting the power supply to BU+BN (1+2) and a reference signal Y to BK (3) of 0(2)...10VDC, moves the actuator to its specified position. The actual damper position 0...100% is a feedback signal U for example to share the signal with other actuators.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

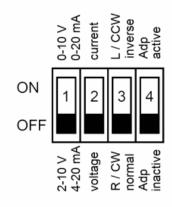
Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

Mode-switch

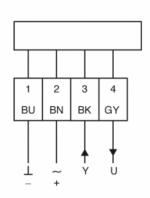
DIP-Switch under the case cover

Adaption drive

- -Adaption on angle of rotation < 90°
- -Actuator power-off
- -Setting the mechanical end stops
- -Actuater power-on
- -Adaption to enable
- -Actuator adaption on angular range
- -Adaption to disable
- -"Y" refers to the measured angular range

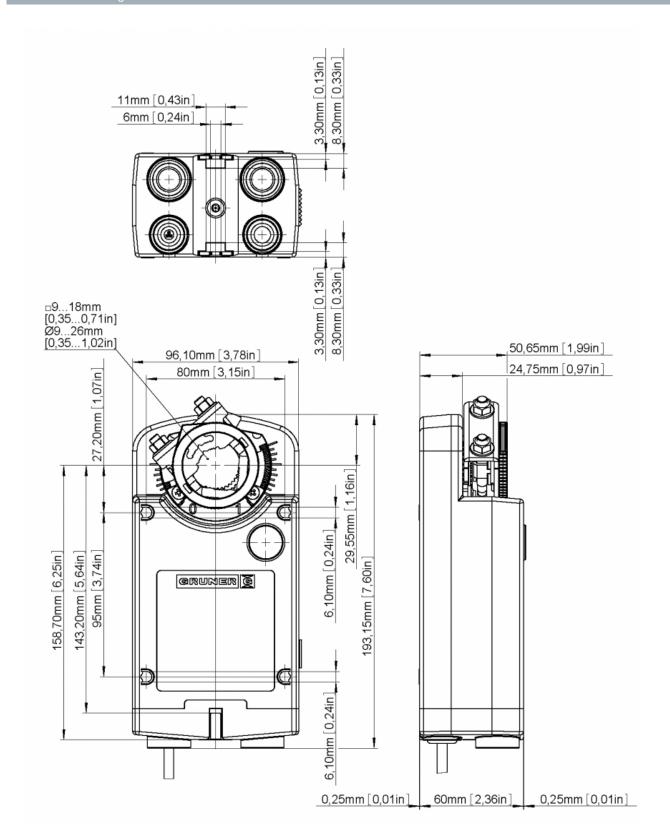






- -Connect via safety isolation transformer -The actuator is not allowed to be used
- outside the specified field of application, especially in airplanes.
- -In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross-section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.









363-024-30

Rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

• Torque Motor 30 Nm
• Nominal Voltage 24 VAC/DC
• Control 2/3 Point

Valve size up to approx. 6 m²

• Damper coupling Clamp

◊ 9-18 mm/ Ø 9-26 mm



Technical data

Nominal voltage	Nominal voltage	24 VAC (50/60Hz), 24 VDC
	Nominal voltage range	1929 VAC/DC
	Power consuption Motor (Motion)	4,5 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	6,0 VA
	Control	2/3-point
	Position feedback	-
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection Motor	Cable 1000 mm, 3 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	-
	Connection Position feedback	-
	Connection GUAC	-
Functional data	Torque Motor	>30 Nm
	Synchronised speed	± 5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged with pushbutton,
		self-resetting
	Angle of rotation	0° max. 95°, can be limited
		with adjustable mechanical end stop
	Running time Motor	<150 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp
		♦ 9-18 mm / Ø 9-26 mm
	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 95° - 0°)
Safety	Protection class	III (low voltage safety current)

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Safety	Degree of protection	IP54 in any mounting position
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	0,8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature Normal operation	−30 +50°C
	Storage temperature	−30 +80°C
	Ambient humidity	595% r.F.,
		non- condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1700 g

Operating mode / Properties

Operating mode

2- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

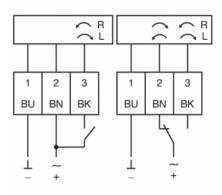
Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)





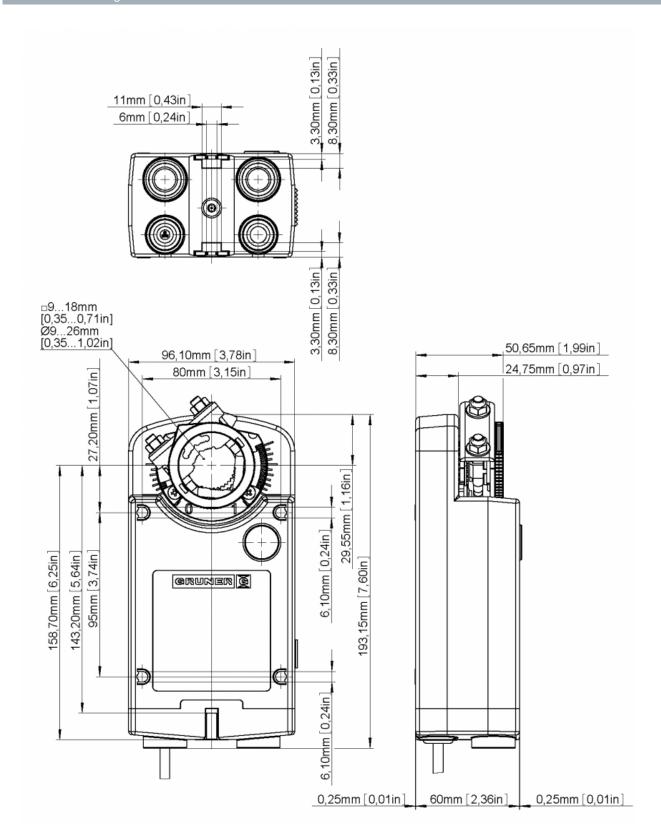


Connection / Safety remarks



- -Connect via safety isolation transformer -The actuator is not allowed to be used
- outside the specified field of application, especially in airplanes.
- -In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross- section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.









363-230-30

Rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

Torque Motor
 Nominal Voltage
 Control
 Valve size
 30 Nm
 230 VAC/DC
 2/3 Point
 up to approx. 6 m²

• Damper coupling Clamp

◊ 9-18 mm/ Ø 9-26 mm



Technical data

Nominal voltage	Nominal voltage	230 VAC (50/60 Hz), 230 VDC
	Nominal voltage range	85265 VAC/DC
	Power consuption Motor (Motion)	4,0 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	7,5 VA
	Control	2/3-point
	Position feedback	-
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection Motor	Cable 1000 mm, 3 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	-
	Connection Position feedback	-
	Connection GUAC	-
Functional data	Torque Motor	>30 Nm
	Synchronised speed	± 5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged with pushbutton,
		self-resetting
	Angle of rotation	0° max. 95°, can be limited
		with adjustable mechanical end stop
	Running time Motor	<150 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp
		♦ 9-18 mm / Ø 9-26 mm
	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 95° - 0°)
Safety	Protection class	II (double insulation)

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Safety	Degree of protection	IP54 in any mounting position
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	4 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature Normal operation	−30 +50°C
	Storage temperature	−30 +80°C
	Ambient humidity	595% r.F.,
		non- condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1700 g

Operating mode / Properties

Operating mode

2- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

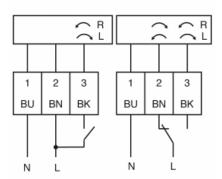
Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

Rotary direction switch



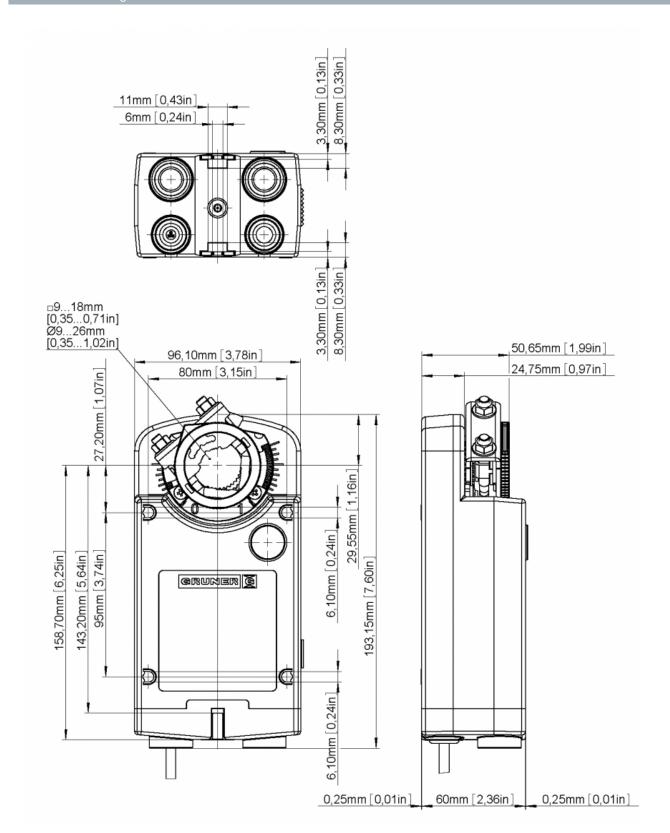


Connection / Safety remarks



- -Attention mains voltage
- -The actuator is not allowed to be used outside the specified field of application, especially in airplanes.
- -In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross- section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.









363-024-30-S2

Rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

30 Nm • Torque Motor 24 VAC/DC Nominal Voltage 2/3 Point Control 2x freely adjustable

 Connection **Auxiliary switch**

• valve size

Damper coupling

up to approx. 6 m²

◊ 9-18 mm / Ø 9-26 mm



Nominal voltage	Nominal voltage	24 VAC (50/60Hz), 24 VDC
	Nominal voltage range	1929 VAC/DC
	Power consuption Motor (Motion)	4,5 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	6,0 VA
	Control	2/3-point
	Position feedback	-
	Auxiliary switch	2 x SPDT (Ag)
	Contact load	5 (2,5) A, 250 VAC
	Switching point	095°
	Connection Motor	Cable 1000 mm, 3 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	Cable 1000 mm, 6 x 0,75 mm ² (halogen free)
	Connection Position feedback	-
	Connection GUAC	-
Functional data	Torque Motor	>30 Nm
	Synchronised speed	± 5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged
		with pushbutton,self-resetting
	Angle of rotation	0° max. 95°, can be limited
		with adjustable mechanical end stop
	Running time Motor	<150 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp
		♦ 9-18 mm / Ø 9-26 mm
	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 90° - 0°)
Safety	Protection class	III (low voltage safety current)



Cafaba	Degree of protection	IDE 4 in any magnifing position
Safety	Degree of protection	IP54 in any mounting position
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	0,8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature Normal operation	−30 +50°C
	Storage temperature	−30 +80°C
	Ambient humidity	595% r.F.,
		non-condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1700 g

Operating mode / Properties

Operating mode

2- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Signaling

The two integrated auxiliary switches are freely adjustable in the angle of $0-95^{\circ}$. These are activated corresponding to the adjusted angle. The damper position can be checked by the mechanical pointer.

Direct mounting

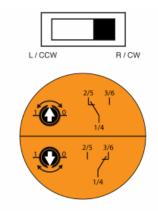
Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

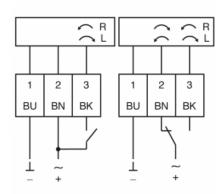
Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

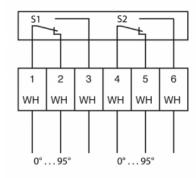
Rotary direction switch

R/CW= clockwise L/ CCW= counter clockwise



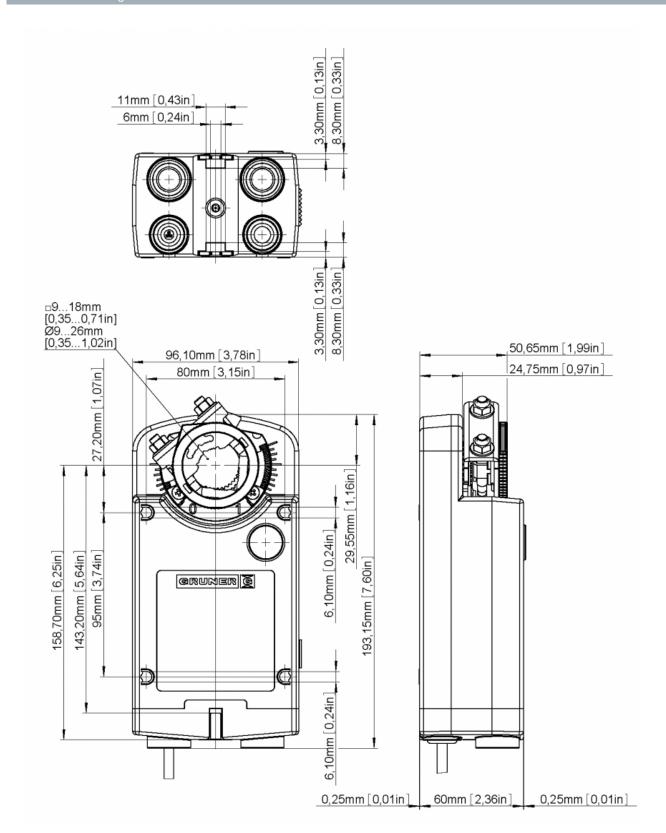






- -Connect via safety isolation transformer -The actuator is not allowed to be used
- outside the specified field of application, especially in airplanes.
- -In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross-section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.









363-230-30-S2

Rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

30 Nm • Torque Motor 230 VAC/DC Nominal Voltage 2/3 Point Control Connection 2x freely adjustable

Auxiliary switch

 Valve size up to approx. 6 m² Damper coupling

◊ 9-18 mm / Ø 9-26 mm



Nominal voltage	Nominal voltage	230 VAC (50/60Hz), 230 VDC
	Nominal voltage range	85265 VAC/DC
	Power consuption Motor (Motion)	4,0 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	7,5 VA
	Control	2/3-point
	Position feedback	-
	Auxiliary switch	2 x SPDT (Ag)
	Contact load	5 (2,5) A, 250 VAC
	Switching point	095°
	Connection Motor	Cable 1000 mm, 3 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	Cable 1000 mm, 6 x 0,75 mm ² (halogen free)
	Connection Position feedback	-
	Connection GUAC	-
Functional data	Torque Motor	>30 Nm
	Synchronised speed	± 5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged
		with pushbutton,self-resetting
	Angle of rotation	0° max. 95°, can be limited
		with adjustable mechanical end stop
	Running time Motor	<150 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp
		♦ 9-18 mm / Ø 9-26 mm
	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 95° - 0°)
Safety	Protection class	II (double insulation)



Safety	Degree of protection	IP54 in any mounting position
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	4 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature Normal operation	−30 +50°C
	Storage temperature	−30 +80°C
	Ambient humidity	595% r.F.,
		non-condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1700 g

Operating mode / Properties

Operating mode

2- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Signaling

The two integrated auxiliary switches are freely adjustable in the angle of 0 – 95°. These are activated corresponding to the adjusted angle. The damper position can be checked by the mechanical pointer.

Direct mounting

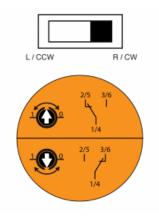
Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

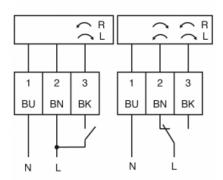
Rotary direction switch

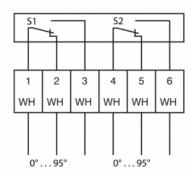
R/CW= clockwise L/ CCW= counter clockwise





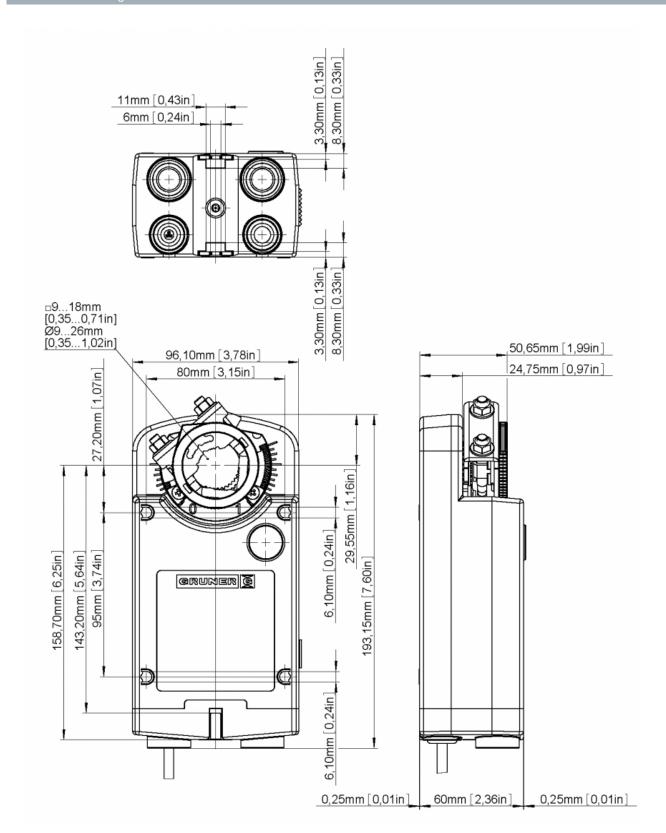
Connection / Safety remarks





- -Attention mains voltage
- -The actuator is not allowed to be used outside the specified field of application, especially in airplanes.
- -In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross- section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.









363C-024-30

Continuous control of rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

Torque Motor 30 NmNominal Voltage 24 VAC/DC

Control
 Valve size
 Damper coupling
 Continuous DC 0(2)...10 V
 up to approx. 6 m²
 Clamp

◊ 9-18 mm/ Ø 9-26 mm



Technical data

Nominal voltage	Nominal voltage	24 VAC (50/60Hz), 24 VDC
	Nominal voltage range	1929 VAC/DC
	Power consuption Motor (Motion)	4,5 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	6,0 VA
	Control	Continuous
		$0(2)10 \text{ VDC} / \text{Ri} > 100 \text{ k}\Omega$
		$0(4)20 \text{ mA} / \text{Rext.} = 500 \Omega$
	Position feedback	0(2)10 VDC, max 5 mA
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection Motor	Cable 1000 mm, 4 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	-
	Connection Position feedback	-
	Connection GUAC	-
unctional data	Torque Motor	>30 Nm
	Synchronised speed	± 5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged with pushbutton,
		self-resetting
	Angle of rotation	0° max. 95°, can be limited
		with adjustable mechanical end stop
		Adaption of operating range
Running time Motor	to match the mechanical angle of rotation.	
	Running time Motor	<150 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp
		♦ 9-18 mm / Ø 9-26 mm

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Functional data	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 95° - 0°)
		>1'000'000 partial cycles (max. ±5°)
Safety	Protection class	III (low voltage safety current)
	Degree of protection	IP54 in any mounting position
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	0,8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature Normal operation	−30 +50°C
	Storage temperature	−30 +80°C
	Ambient humidity	595% r.F.,
		non- condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1700 g

Operating mode / Properties

Operating mode

Through connecting the power supply to BU+BN (1+2) and a reference signal Y to BK (3) of 0(2)...10VDC, moves the actuator to its specified position. The actual damper position 0...100% is a feedback signal U for example to share the signal with other actuators.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

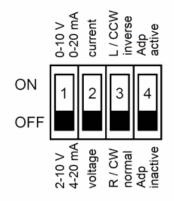
Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

Mode-switch

DIP-Switch under the case cover

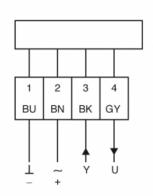
Adaption drive

- -Adaption on angle of rotation < 90°
- -Actuator power-off
- -Setting the mechanical end stops
- -Actuater power-on
- -Adaption to enable
- -Actuator adaption on angular range
- -Adaption to disable
- -"Y" refers to the measured angular range



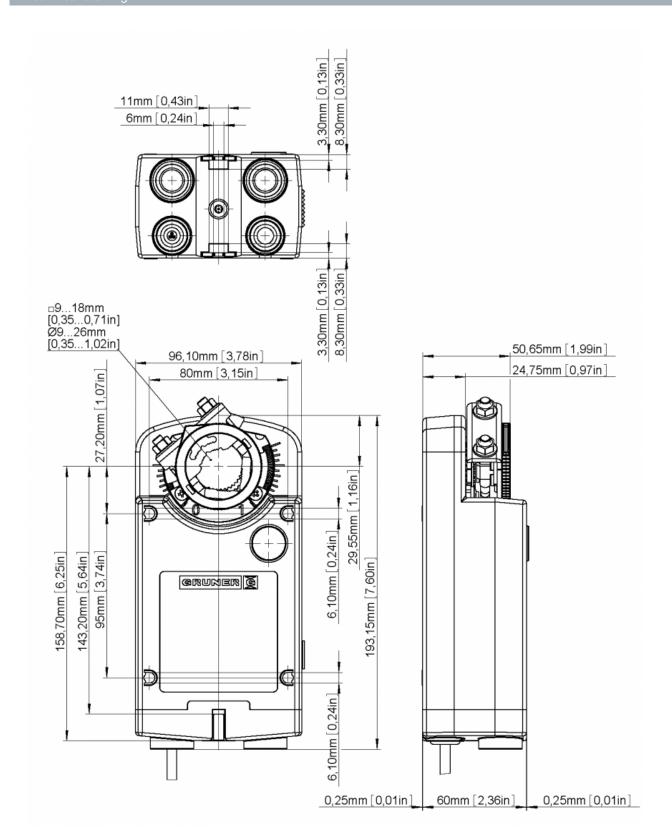


Connection / Safety remarks



- -Connect via safety isolation transformer -The actuator is not allowed to be used
- outside the specified field of application, especially in airplanes.
- -In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross- section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.









363C-024-30-S2

Continuous control rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

Torque Motor 30 NmNominal Voltage 24 VAC/DC

Control Continuous DC 0(2)...10 V
 Auxiliary switch 2x freely adjustable
 Valve size up to approx. 6 m²
 Damper coupling Clamp

◊ 9-18 mm/ Ø 9-26 mm



Technical data

Nominal voltage	Nominal voltage	24 VAC (50/60Hz), 24 VDC
	Nominal voltage range	1929 VAC/DC
	Power consuption Motor (Motion)	4,5 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	6,0 VA
	Control	Continuous
		0(2)10 VDC / Ri > 100 kΩ
		$0(4)20 \text{ mA} / \text{Rext.} = 500 \Omega$
	Position feedback	0(2)10 VDC, max 5 mA
	Auxiliary switch	2 x SPDT (Ag)
	Contact load	5 (2,5) A, 250 VAC
	Switching point	095°
	Connection Motor	Cable 1000 mm, 4 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	Cable 1000 mm, 6 x 0,75 mm ² (halogen free)
	Connection Position feedback	-
	Connection GUAC	-
unctional data	Torque Motor	>30 Nm
	Synchronised speed	± 5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged with pushbutton,
		self-resetting
	Angle of rotation	0° max. 95°, can be limited
		with adjustable mechanical end stop
		Adaption of operating range
		to match the mechanical angle of rotation.
	Running time Motor	<150 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp
		♦ 9-18 mm / Ø 9-26 mm



Functional data	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 95° - 0°)
		>1'000'000 partial cycles (max. ±5°)
Safety	Protection class	III (low voltage safety current)
	Degree of protection	IP54 in any mounting position
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	0,8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature Normal operation	−30 +50°C
	Storage temperature	−30 +80°C
	Ambient humidity	595% r.F.,
		non- condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1700 g

Operating mode / Properties

Operating mode

Through connecting the power supply to BU+BN (1+2) and a reference signal Y to BK (3) of 0(2)...10VDC, moves the actuator to its specified position. The actual damper position 0...100% is a feedback signal U for example to share the signal with other actuators.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

Signaling

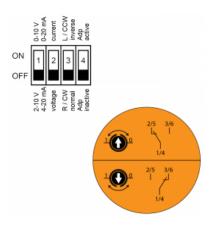
The two integrated auxiliary switches are freely adjustable in the angle of $0-95^\circ$. These are activated corresponding to the adjusted angle. The damper position can be checked by the mechanical pointer.

Mode- switch

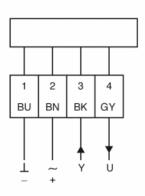
DIP-Switch under the case cover

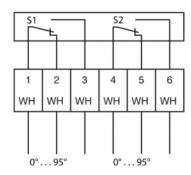
Adaption drive

- -Adaption on angle of rotation < 90°
- -Actuator power-off
- -Setting the mechanical end stops
- -Actuater power-on
- -Adaption to enable
- -Actuator adaption on angular range
- -Adaption to disable
- -"Y" refers to the measured angular range



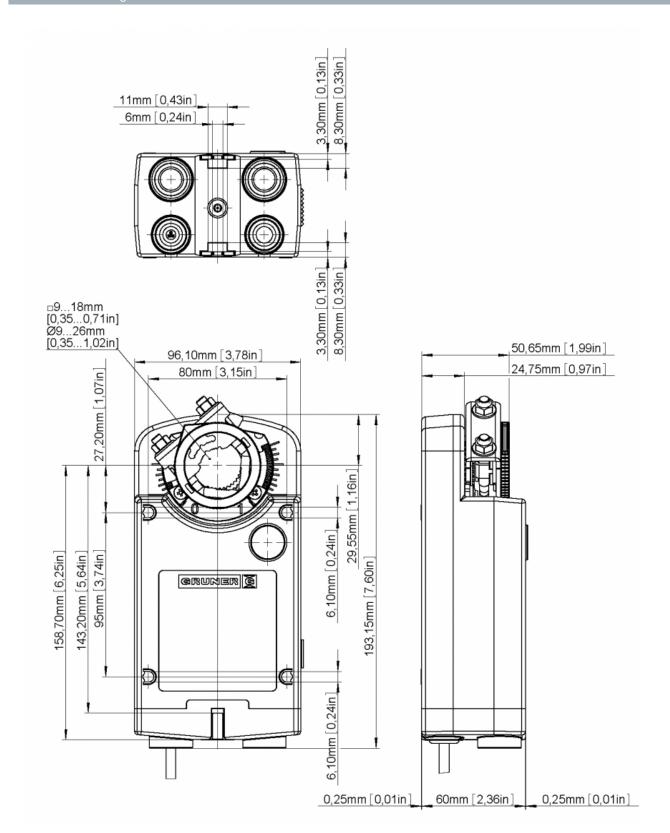






- -Connect via safety isolation transformer -The actuator is not allowed to be used outside the specified field of application,
- especially in airplanes.
- -In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross-section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.









363-024-40

Rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

Torque Motor
 Nominal Voltage
 Control
 Valve size
 40 Nm
 24 VAC/DC
 2/3 Point
 up to approx. 8 m²

• Damper coupling Clamp

◊ 9-18 mm/ Ø 9-26 mm



Technical data

Nominal voltage	Nominal voltage	24 VAC (50/60Hz), 24 VDC
	Nominal voltage range	1929 VAC/DC
	Power consuption Motor (Motion)	5,5 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	7,0 VA
	Control	2/3-point
	Position feedback	-
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection Motor	Cable 1000 mm, 3 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	-
	Connection Position feedback	-
	Connection GUAC	-
Functional data	Torque Motor	>40 Nm
	Synchronised speed	± 5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged with pushbutton,
		self-resetting
	Angle of rotation	0° max. 95°, can be limited
		with adjustable mechanical end stop
	Running time Motor	<150 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp
		♦ 9-18 mm / Ø 9-26 mm
	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 95° - 0°)
Safety	Protection class	III (low voltage safety current)

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Safety	Degree of protection	IP54 in any mounting position
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	0,8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature Normal operation	−30 +50°C
	Storage temperature	−30 +80°C
	Ambient humidity	595% r.F.,
		non- condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1700 g

Operating mode / Properties

Operating mode

2- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating

Manual override

Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

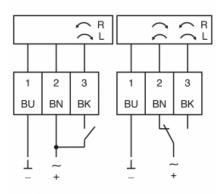
Rotary direction switch

R/CW= clockwise L/ CCW= counter clockwise



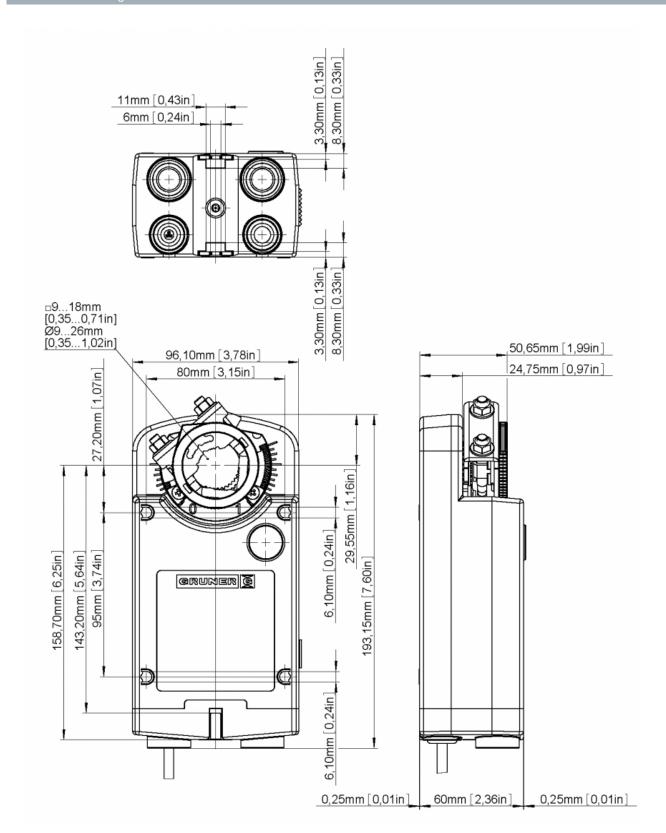


Connection / Safety remarks



- -Connect via safety isolation transformer -The actuator is not allowed to be used outside the specified field of application.
- outside the specified field of application, especially in airplanes.
- -In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross- section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.









363-230-40

Rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

Torque Motor
 Nominal Voltage
 Control
 Valve size
 40 Nm
 230 VAC/DC
 2/3 Point
 up to approx. 8 m²

• Damper coupling Clamp

◊ 9-18 mm/ Ø 9-26 mm



Technical data

Nominal voltage	Nominal voltage	230 VAC (50/60 Hz), 230 VDC
	Nominal voltage range	85265 VAC/DC
	Power consuption Motor (Motion)	5,5 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	10,0 VA
	Control	2/3-point
	Position feedback	-
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection Motor	Cable 1000 mm, 3 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	-
	Connection Position feedback	-
	Connection GUAC	-
Functional data	Torque Motor	>40 Nm
	Synchronised speed	± 5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged with pushbutton,
		self-resetting
	Angle of rotation	0° max. 95°, can be limited
		with adjustable mechanical end stop
	Running time Motor	<150 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp
		♦ 9-18 mm / Ø 9-26 mm
	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 95° - 0°)
Safety	Protection class	II (double insulation)

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Safety	Degree of protection	IP54 in any mounting position
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	4 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature Normal operation	−30 +50°C
	Storage temperature	−30 +80°C
	Ambient humidity	595% r.F.,
		non- condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1700 g

Operating mode / Properties

Operating mode

2- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

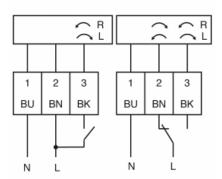
Rotary direction switch

R/CW= clockwise L/ CCW= counter clockwise



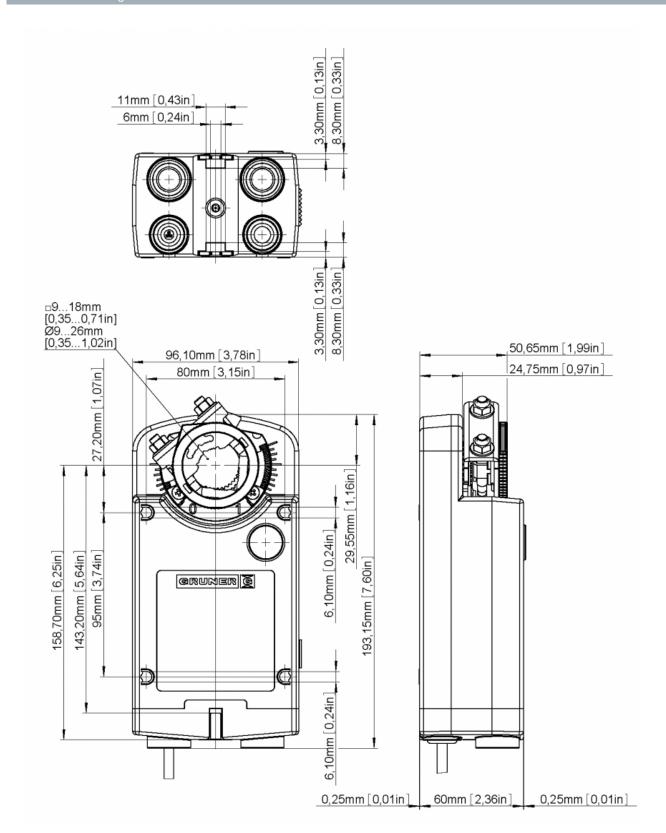


Connection / Safety remarks



- -Attention mains voltage
- -The actuator is not allowed to be used outside the specified field of application, especially in airplanes.
- -In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross- section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.









363-024-40-S2

Rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in ventilation and air conditioning systems in buildings.

Torque Motor
 Nominal Voltage
 Control
 Connection
 40 Nm
 24 VAC/DC
 2/3 Point
 2x freely adjustable

Connection
 Auxiliary switch

• Valve size up to approx. 8 m²

Damper coupling Clam

◊ 9-18 mm / Ø 9-26 mm



Technical data

Nominal voltage	Nominal voltage	24 VAC (50/60Hz), 24 VDC
	Nominal voltage range	1929 VAC/DC
	Power consuption Motor (Motion)	5,5 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	7,0 VA
	Control	2/3-point
	Position feedback	-
	Auxiliary switch	2 x SPDT (Ag)
	Contact load	5 (2,5) A, 250 VAC
	Switching point	095°
	Connection Motor	Cable 1000 mm, 3 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	Cable 1000 mm, 6 x 0,75 mm ² (halogen free)
	Connection Position feedback	-
	Connection GUAC	-
Functional data	Torque Motor	>40 Nm
	Synchronised speed	± 5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged
		with pushbutton,self-resetting
	Angle of rotation	0° max. 95°, can be limited
		with adjustable mechanical end stop
	Running time Motor	<150 s / 90°
	Sound power level Motor	< 45 dB(A)
	Damper coupling	Clamp
		♦ 9-18 mm / Ø 9-26 mm
	Position indication	mechanical with pointer
	Service life	>60'000 cycles (0° - 95° - 0°)
Safety	Protection class	III (low voltage safety current)

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Cafaba	Degree of protection	IDE 4 in any magnifing position
Safety	Degree of protection	IP54 in any mounting position
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	0,8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature Normal operation	−30 +50°C
	Storage temperature	−30 +80°C
	Ambient humidity	595% r.F.,
		non-condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	193 x 96 x 60 mm
	Weight	ca. 1700 g

Operating mode / Properties

Operating mode

2- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3- point.

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Signaling

The two integrated auxiliary switches are freely adjustable in the angle of 0 – 95°. These are activated corresponding to the adjusted angle. The damper position can be checked by the mechanical pointer.

Direct mounting

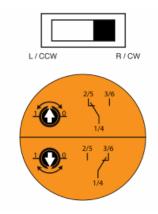
Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

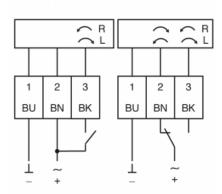
Rotary direction switch

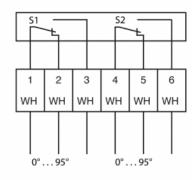
R/CW= clockwise L/ CCW= counter clockwise





Connection / Safety remarks





- -Connect via safety isolation transformer -The actuator is not allowed to be used
- outside the specified field of application, especially in airplanes.
- -In may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross- section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.



