

Modulating damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 0.4 m²
- Torque motor 2 Nm
- Nominal voltage AC/DC 24 V
- Control modulating 2...10 V
- Position feedback 2...10 V



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Electrical data	Nominal voltage	AC/DC 24 V	
Liceti icai aata	Nominal voltage frequency	50/60 Hz	
	Nominal voltage range	AC 19.228.8 V / DC 19.228.8 V	
	Power consumption in operation	1 W	
	Power consumption in rest position	0.5 W	
	Power consumption for wire sizing	1.5 VA	
	Connection supply / control	Cable 1 m, 4x 0.75 mm ²	
	Parallel operation	Yes (note the performance data)	
Functional data	Torque motor	2 Nm	
	Operating range Y	210 V	
	Input impedance	100 kΩ	
	Position feedback U	210 V	
	Position feedback U note	Max. 1 mA	
	Position accuracy	±5%	
	Direction of motion motor	clockwise rotation	
	Direction of motion note	Y = 0 V: right end stop, position 0	
	Manual override	with magnet	
	Angle of rotation	95°, fixed setting	
	Running time motor	75 s / 90°	
	Sound power level, motor	35 dB(A)	
	Mechanical interface	Universal shaft clamp 612.7 mm	
	Position indication	Mechanical, pluggable (with integrated magnet for gear train disengagement)	
Safety data	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)	
	Power source UL	Class 2 Supply	
	Degree of protection IEC/EN	IP54	
	Degree of protection NEMA/UL	NEMA 2	
	Enclosure	UL Enclosure Type 2	
	EMC	CE according to 2014/30/EU	
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14	
	UL Approval	cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1	
		The UL marking on the actuator depends on the production site, the device is UL-compliant in any case	
	Hygiene test	According to VDI 6022 Part 1 / SWKI VA 104-01, cleanable and disinfectable, low emission	

Type 1

Type of action



Technical data sheet	CM24-SR-R
TECHINGA GALA SHEEL	CIVIZ4-3R-R

Technical data		
Safety data	Rated impulse voltage supply / control	0.8 kV
	Pollution degree	3
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-3050°C [-22122°F]
	Storage temperature	-4080°C [-40176°F]
	Servicing	maintenance-free
Weigh	Weight	0.28 kg

Safety notes



- This device has been designed for use in stationary heating, ventilation and air-conditioning
 systems and must not be used outside the specified field of application, especially in aircraft or
 in any other airborne means of transport.
- Outdoor application: only possible in case that no (sea) water, snow, ice, insolation or
 aggressive gases interfere directly with the device and that it is ensured that the ambient
 conditions remain within the thresholds according to the data sheet at any time.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.
- The mechanical end stops for limiting the angle of rotation may only be removed for adjustment. They must always be mounted during operation.
- The device may only be opened at the manufacturer's site. It does not contain any parts that
 can be replaced or repaired by the user.
- · Cables must not be removed from the device.
- To calculate the torque required, the specifications supplied by the damper manufacturers
 concerning the cross-section and the design, as well as the installation situation and the
 ventilation conditions must be observed.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

Mode of operation The actuator is connected with a standard control signal of 0...10 V and drives to the position

defined by the control signal. Measuring voltage U serves for the electrical display of the

damper position 0...100% and as control signal for other actuators.

Simple direct mounting The actuator is mounted directly on the damper shaft (ø6...12.7 mm) with a universal shaft

clamp and then secured with the anti-rotation clip, to prevent it from rotating.

The anti-rotation clip Z-ARCM is included in the scope of delivery.

Manual override Manual override with magnet possible (the gear train is disengaged as long as the magnet

adheres to the magnet symbol). The magnet for gear train disengagement is integrated in the

position indication.

Adjustable angle of rotation Adjustable angle of rotation with mechanical end stops.

High functional reliability The actuator is overload protected, requires no limit switches and automatically stops when the

end stop is reached.

Hidden synchronisation If the actuator drives to the lower end stop during ongoing operation, it performs a

synchronisation of the control signal at DC 2 V. This ensures that the signal range also corresponds to the effective functional range in ongoing operation. The bottom end stop is actively approached as soon as the control signal is <DC 2.1 V. The actuator drives to the new

specified position as soon as the control signal is once again >DC 2.3 V.



Accessories

Mechanical accessories	Description	Туре
	Anti-rotation clip, Multipack 20 pcs.	Z-ARCM
	Gear train disengagement magnet, Multipack 20 pcs.	Z-MA
	Position indicator, Multipack 20 pcs.	Z-PICM
	End stop clip, Multipack 20 pcs.	Z-ESCM
	Shaft extension 170 mm ø10 mm for damper shaft ø616 mm	AV6-20

Electrical installation



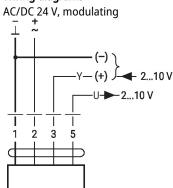
Supply from isolating transformer.

Parallel connection of other actuators possible. Observe the performance data.

Wire colours:

- 1 = black
- 2 = red
- 3 = white
- 5 = orange

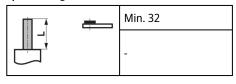
Wiring diagrams

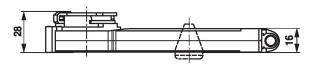


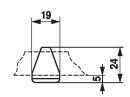
1	2	3	
7	_~	2 V	(1)
7	~	10 V	V

Dimensions

Spindle length







Clamping range

OŢ.		♦ 1
612.7	6/8/10	612.7

