



5 Nm | 2-POINT CONTROL



The appearance of the product may differ from the illustration. Technical specifications are subject to change

NECA...05 (S1) SERIES

NECA series actuators with Electronic Return® (ER) function are designed and produced for extended functionalities in HVAC systems fan coil and laboratory applications.

Electronic Return® (ER) is able to manage short voltage interruptions for max. 4 seconds. In case of longer voltage interruption actuator will move the damper or valve to a predefined emergency position (EPS).

	Torque 5 Nm.
	For damper size ca. 1.0 m ² .
	Power supply 24 $V_{\text{AC / DC}}$ and 230 V_{AC}
	2-point control.
	Manual over-ride push button.
•	Shaft dimension: Ø 1017 mm / square में 512 mm.
	Minimum shaft length 40 mm.
	Selectable direction of rotation by switch.
	Adjustable angle of rotation.
	Actuator available with 1 m connection cable.
	Optional 1 adjustable SPDT auxiliary switch.
	Customised versions and functions (on request).

NODEL SELECTION TABLE						
Torque	Running time	Return time – safety function	Power supply	Auxiliary switches	Model/type	
5 Nm	5055 s	35 s	24 V _{AC/DC} ± 10%	No	NECA 1-05	
5 Nm	5055 s	35 s	24 V _{AC/DC} ± 10%	1 x SPDT (adjustable)	NECA 1-05S1	
5 Nm	5055 s	35 s	230 V _{AC} ± 10%	No	NECA 2-05	
5 Nm	5055 s	35 s	230 V _{AC} ± 10%	1 x SPDT (adjustable)	NECA 2-05S1	





5 Nm | 2-POINT CONTROL



TECHNICAL SPECIFICATION

	NECA 1-20 (S1)	NECA 2-20 (S1)
Torque	5 Nm	5 Nm
Damper size	1.0 m ²	1.0 m ²
Shaft dimensions	Ø 1017 mm / square 坷 512 mm	Ø 1017 mm / square 増 512 mm
Power supply	24 V _{AC/DC} ± 10%	230 V _{AC} ± 10%
Frequency	5060 Hz	5060 Hz
Control signal (input)	2-point control	2 point control
Power consumption		
- Operating	8.7 W	8.7 W
- At end position	1.2 W	1.2 W
Rated power	14.0 VA	14.0 VA
Auxiliary switch rating	3(1.5) A/ 250 V _{AC}	3(1.5) A/ 250V _{AC}
Protection class	ш 🗇	
Electrical wiring	1 m Cable	1 m Cable
Angle of rotation	90° (95° mechanical limitation)	90° (95° mechanical limitation)
Weight	<0.55 kg	<0.55kg
Durability	60,000 rotations	60,000 rotations
Sound level	< 42 dB	< 42 dB
Protection degree	IP54	IP54
Working temperature range	-20°C50°C as per IEC 721-3-3	-20°C50°C as per IEC 721-3-3
Storage temperature	-30°C+60°C / IEC 721-3-2	-30°C+60°C / IEC 721-3-2
Humidity	595% rH (non condensing) / EN	595% rH (non condensing) / EN
Maintenance	Maintenance free	Maintenance free
Principle of operation	Type 1 (acc. to EN 60730-1)	Type 1 (acc. to EN 60730-1)
Electromagnetic compatibility	CE & ISO 9000 to EN / EEC	CE & ISO 9000 to EN / EEC





5 Nm | 2-POINT CONTROL









Direction of rotation can be changed by toggling the CW/CCW switch on the actuator housing.



Auxiliary switch NECA ...05 (S1)



Note

Parallel connection of maximum five NECA...05 (S1) actuators is possible. Power consumption must be observed!





5 Nm | 2-POINT CONTROL

Releasing the adapter NECA05 (S1)	~]
Releasing the adapter is not required.	
LIMITING ANGLE OF ROTATION NECA05 (S1)	
Adjustment of mechanical limiter. 1. Loosen the screw of mechanical limiter. 2. Move limiter to appropriate position.	

- 3. Tighten the screw.

*Working range of 90° can be reduced up to 30° from end position.



IMPORTANT REMARKS

This actuator includes electrical and electronic components and may not be disposed as household waste. Please consider the local valid legislation.

24 V_{AC/DC}: Connect via safety isolating transformer.

230 V_{AC}: To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least a 3 mm contact gap.)

Consult NENUTEC representatives for specific requirements and material selections for your intended application. The entire content of this technical datasheet is protected by copyright. All rights are reserved ©.

The performance specifications are nominal and conform to acceptable industry standards. Nenutec shall not be liable for damages resulting from misapplication or misuse of its products.

IMPORTANT REMARK

The NENUTEC NECA... actuator series can be equipped with a variety of NENUTEC products as characterized 2-way and 3-way ball valves of NVCB series.

Contact NENUTEC representatives or factory for the specific requirements and material selection for your intended application

CUSTOMISED VERSION

NENUTEC offers you actuators in customised versions, e.g. with your own brand name, with colour-coordinated applications and with your particular demand on request.

For further information please contact us or our local representative.

Nenutec Polska

00-236 Warszawa ul. Świętojerska 5/7 tel.: +48-(0)-504-050225 nenutec@nenutec.pl