



#### **5 Nm| MODULATING CONTROL**



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

# NECM...05 (S1) SERIES

NECM 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).

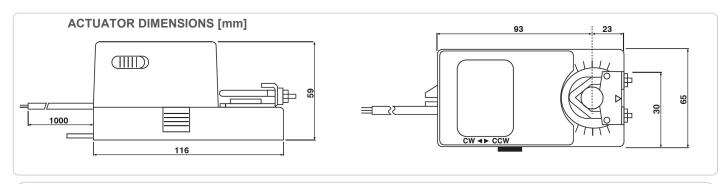
- Torque 5 Nm.
- For damper size ca. 1,0 m<sup>2</sup>.
- Power supply 24 V<sub>AC / DC</sub>
- Modulating control 0(2)...10 V<sub>DC</sub>.
- Manual over-ride push button.
- Shaft dimension: Ø 10...17 mm / square <sup>□</sup> 5...12 mm.
- Minimum shaft length 45 mm.
- Selectable direction of rotation by switch.
- Adjustable angle of rotation.
- Actuator available with 1 m connection cable.
- Optional 1 SPDT auxiliary switch.
- Customised versions and functions (on request).

MODEL SELECTION TABLE					
Torque	Running time	Return time - safety function	Power supply	Auxiliary switch	Model/type
5 Nm	5055 s	35 s	$24 V_{AC/DC} \pm 10\%$	No	NECM 1.2-05
5 Nm	5055 s	35 s	24 V <sub>AC/DC</sub> ± 10%	1 x SPDT	NECM 1.2-05S





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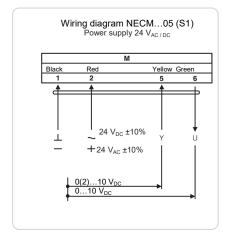


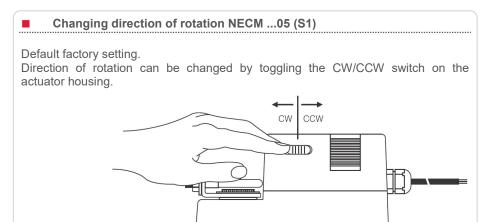
TECHNICAL SPECIFICATION	N
	NECM 1.2-05 (S1)
Torque	5 Nm
Damper size	1.0 m <sup>2</sup>
Shaft dimensions	Ø 1017 mm / square 🗓 512 mm
Power supply	24 V <sub>AC/DC</sub> ± 10%
Frequency	5060 Hz
Control signal (input)	0(2)10 V <sub>DC</sub>
Position signal (output)	010 V <sub>DC</sub>
Power consumption	
- Operating	7.2 W
<ul> <li>At end position</li> </ul>	1.2 W
Rated power	14 VA
Protection class	Ⅲ ◆
Auxiliary switch rating	3(1.5) A/ 250 V <sub>AC</sub>
Electrical wiring	1 m Cable
Angle of rotation	90° (95° mechanical limitation)
Weight	<0.7 kg
Durability	60,000 rotations
Sound level	40 dB
Protection degree	IP54
Working temperature range	-20°C50°C as per IEC 721-3-3
Storage temperature	-30°C+60°C / IEC 721-3-2
Humidity	595% rH (non condensing) / EN
Maintenance	Maintenance free
Principle of operation	Type 1 (acc. to EN 60730-1)
Electromagnetic compatibility	CE & ISO 9000 to EN / EEC

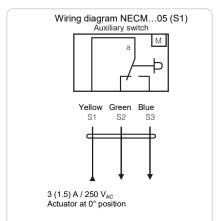


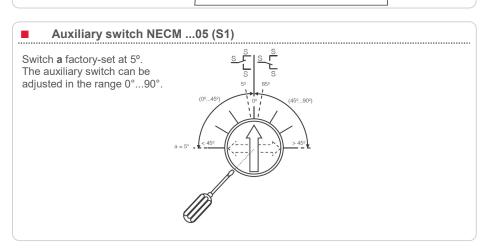


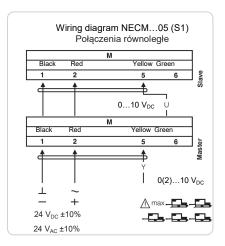
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During parallel operation, the output signal (terminal 6, 0...10 V<sub>DC</sub>) of the master actuator must be connected to terminal 5 of the next slave actuator.

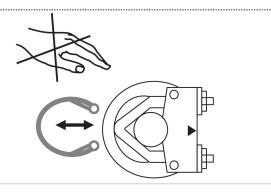




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#### Releasing the Adapter NECM...05 (S1)

Releasing the adapter is not required.

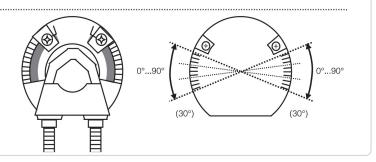


#### ■ LIMITING ANGLE OF ROTATION NECM...05 (S1)

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.



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#### **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<sub>AC/DC</sub>: Connect via safety isolating transformer.

230 V<sub>AC</sub>: 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.



The NENUTEC NECM...(S1) actuator series can be equipped with a variety of NENUTEC products characterized 2-way und 3-way ball valves of NVCB... series and NPG-1 position transmitter accessories.

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.

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