



20 Nm | 2-POINT CONTROL



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

NECA...20 (S) 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).

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To	orque 20 Nm.
Fc	or damper size ca. 4,0 m².
Pc	ower supply 24 $V_{\text{AC/DC}}$ and 230 V_{AC}
2-	point control.
Ma	anual over-ride push button.
Sh	haft dimension: Ø 1220 mm / square ـ 1114 mm.
Mi	inimum shaft length 50 mm.
Se	electable direction of rotation by switch.
Ac	djustable angle of rotation.
Ac	ctuator available with 1 m connection cable.
Op	ptional 2 adjustable SPDT auxiliary switches.
Cu	ustomised versions and functions (on request).
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MODEL SELECTION TABLE					
Torque	Running time	Return time – safety function	Power supply	Auxiliary switches	Model/type
20 Nm	90125 s	70 s	24 V _{AC/DC} ± 10%	No	NECA 1-20
20 Nm	90125 s	70 s	24 V _{AC/DC} ± 10%	2 x SPDT (adjustable)	NECA 1-20S
20 Nm	90125 s	70 s	230 V _{AC} ± 10%	No	NECA 2-20
20 Nm	90125 s	70 s	230 V _{AC} ± 10%	2 x SPDT (adjustable)	NECA 2-20S





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TECHNICAL SPECIFICATION

	NECA 1-20 (S)	NECA 2-20 (S)
Torque	20 Nm	20 Nm
Damper size	4.0 m ²	4.0 m ²
Shaft dimensions	Ø 1220 mm / square 莭 1114 mm	Ø 1220 mm / square 🗇 1114 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	7.2 W	7.2 W
 At end position 	1.2 W	1.2 W
Rated power	10.0 VA	10.0 VA
Auxiliary switches 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	1.2 kg	1.2 kg
Durability	60,000 rotations	60,000 rotations
Sound level	< 45 dB	< 45 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





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L1 230 V_{AC} ±10%

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Changing direction of rotation NECA ... 20 (S)

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





Note

Parallel connection of maximum five NECA...20 is possible. Power consumption must be observed!





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Limiting angle rotation NECA ... 20 (S)



Installation instruction



A 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.)

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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.

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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.