

40 Nm| MODULATING CONTROL



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

## NACM...40 (S) SERIES

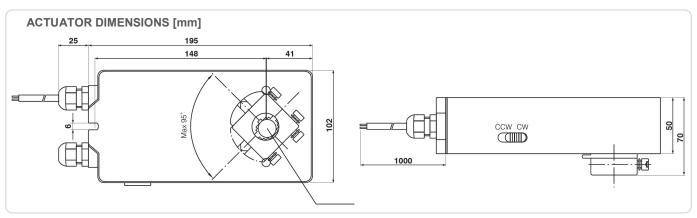
NACM standard damper actuators are specially designed and produced for applications in the HVAC Systems. Our wide range of Nenutec standard damper actuators has been developed to operate and position air dampers of different sizes.

	Torque: 40 Nm
	Damper size 7.0 m <sup>2</sup>
	Power supply 24 V <sub>AC/DC</sub> and 230 V <sub>AC</sub>
	Control signal 0(2)10 V <sub>DC</sub> / 0(4)20 mA
•	Shaft dimensions – Ø 1220 mm / square 1214 mm
•	Minimum shaft length 45 mm
	Adjustable angle of rotation
	Direction of rotation selectable by switch
	Actuator with 1 m connection cable
	Optional 1 adjustable SPDT auxiliary switch
•	Manual over ride by push button when required

MODEL SELECTION TABLE						
Model/type	Torque	Power supply	Running time	Auxiliary switch		
NACM 1-40	40 Nm	24 V <sub>AC/DC</sub> ± 10%	150180 s	-		
NACM 1-40S	40 Nm	24 V <sub>AC/DC</sub> ± 10%	150180 s	2 x SPDT (adjustable)		
NACM 2-40	40 Nm	230 V <sub>AC</sub> ± 10%	150180 s			
NACM 2-40S	40 Nm	$230 V_{AC} \pm 10\%$	150180 s	2 x SPDT (adjustable)		



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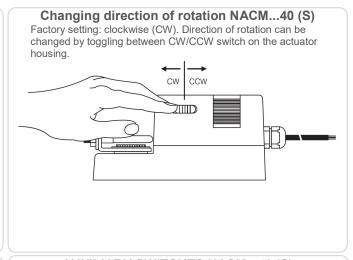


	NACM 1-40 (S)	NACM 2-40 (S)
Torque	40 Nm	40 Nm
Damper size	7.0 m <sup>2</sup>	7.0 m <sup>2</sup>
Shaft dimensions	Ø 1220 mm / 🗖 1214 mm	Ø 1220 mm / 🗆 1214 mm
Power supply	24 V <sub>AC/DC</sub> ± 10%	230 V <sub>AC</sub> ± 10%
Frequency	5060Hz	5060Hz
Control signal (Input)	0(2)10 V <sub>DC</sub> / 0(4)20 mA	0(2)10 V <sub>DC</sub> / 0(4)20 mA
Position signal (output)	010 V <sub>DC</sub>	010 V <sub>DC</sub>
Power consumption		
In operation	8.0 W	8.0 W
End position	2.0 W	2.0 W
Rated power	10.0 VA	10.0 VA
Electrical connections	1 m Cable	1 m Cable
Auxiliary switch rating	3 (1.5) A / 250 V <sub>AC</sub>	3 (1.5) A / 250 V <sub>AC</sub>
Protection class	Class III Ф	Class II
Angle of rotation	90° (95° mechanical limitation)	90° (95° mechanical limitation)
Weight	<1.4 kg	<1.4 kg
Durability	60,000 rotations	60,000 rotations
Sound level	45 dB	45 dB
IP protection class	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
Ambient 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, UL 873 & ISO 9000 EN / EEC	CE, UL 873 & ISO 9000 EN / EEC

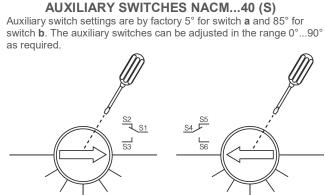


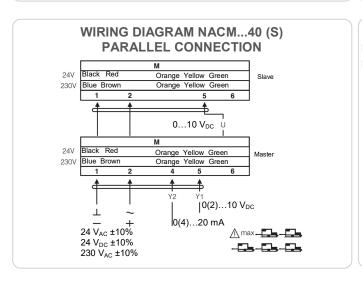
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## WIRING DIAGRAM NACM...40 (S) POWER SUPPLY 24 V<sub>AC/DC</sub> / 230 V<sub>AC</sub> М 24V Orange Yellow Green Black Red 230V Orange Yellow Green Blue Brown 5 24 V<sub>AC</sub> ±10% 24 V<sub>DC</sub> ±10% 230 V<sub>AC</sub> ±10% 0(4)...20 mA 0(2)...10 V<sub>DC</sub> 0...10 V<sub>DC</sub>



## WIRING DIAGRAM NACM...40 (S) AUXILIARY SWITCHES Yellow Green Blue S3 Purple Gray White S4 S5 S6 S6 Actuator at 0° position





# REMARK Parallel connection of maximum 5 NACM...40 (S) actuators is possible. Power consumption must be observed!



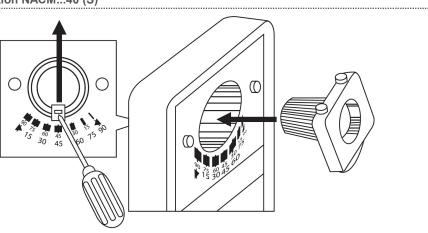
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### Adjusting control signals NACM...40 (S)

Control signal (terminal 5)	010 V <sub>DC</sub>				
Input resistance	Ri 100 kOhm				
Factory default setting					
Control signal 5(terminal 5)	210 V <sub>DC</sub>				
Input resistance	Ri 500 kOhm				
On request					

Limiting angle of rotation NACM...40 (S)

Removing the spindle connector





## **!** 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 3mm contact gap.)

Consult NENUTEC representatives for specific requirements and material selections for your intended application. technical datasheet protected 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.

## **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

## Nenutec Polska

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