

SECTION 7.5

ACTUATORS TYPE NACM1.2-05



ELECTROVENT



APPLICATION

- ELECTROVENT damper actuators are designed specifically for the HVAC market
- For air control dampers up to approx. 1m²
- Torque 2 Nm or 5 Nm
- Nominal voltage AC/DC 24 V
- Universal adapter for easy direct mounting
- Shaft dimension Ø 6...16mm / 5...12mm square
- 40mm minimum shaft length
- Anti - rotation bracket provided for stability
- Manual over ride by push button when required
- Selectable direction of rotation CW/CCW
- Adjustable angle of rotation, mechanical end stops
- DC 0(2)...10 V Input Signal
- DC 0(2)...10 V Feedback Output Signal
- Actuators available with 1m cable connection
- Customised version available, on request

MODEL SELECTION TABLE

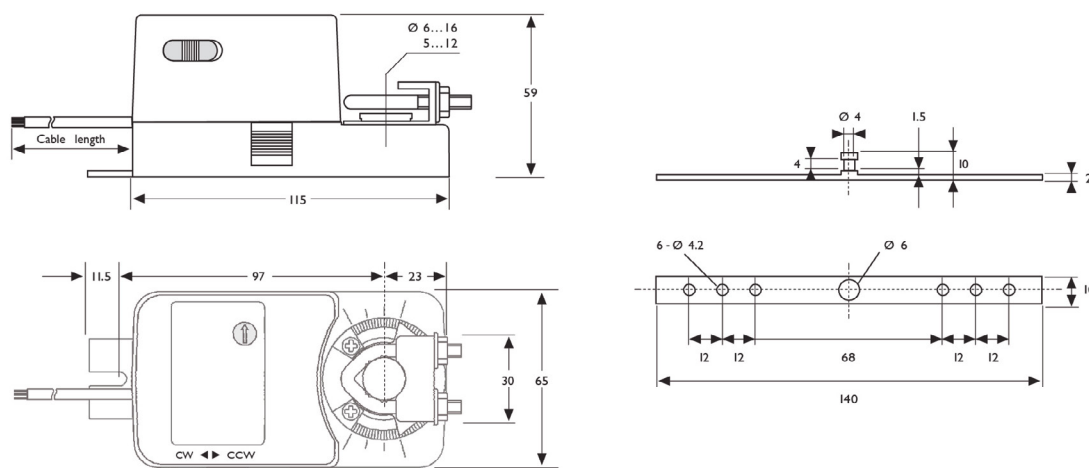
TOURQUE	RUNNING TIME	POWER TIME	AUXILIARY SWITCHES	MODEL / TYPE
2 Nm	60...90 sec	AC/DC 24V ±10%	No	NACM 1.2- 02

The performance specification above are nominal and subject to tolerances and application variables of generally acceptable industry standards. ELECTROVENT shall not be liable for damages resulting from misapplication or misuse of its products.

TECHNICAL SPECIFICATION TABLE

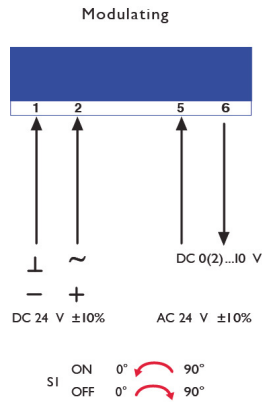
	NACMI.2...	NACMI.2...
Torque	2 Nm	5 Nm
Damper Size	0.4 m ²	1.0 m ²
Power Supply	AC/DC 24V	AC/DC 24V
Frequency	50 - 60 Hz	50 - 60 Hz
Power Consumption		
• Operating	2.0W	2.0W
• At the end stops	2.0W	2.0W
For wire sizing	4.0VA	4.0VA
Protection class	II	II
Input Control Signal 5	DC 0 (2)...10V	DC 0 (2)...10V
Output Control Signal 6	DC 0 (2)...10V	DC 0 (2)...10V
Angle of Rotation	90° (93° mechanical)	90° (93° mechanical)
Angle Limiting	Mechanical end stops	Mechanical end stops
Weight approx.	0.5 kg	0.5 kg
Life Cycle	60,000 rotation	60,000 rotation
Sound Level	Max. 40 dB(A)	Max. 40 dB(A)
IP Protection	IP54	IP54
Ambient Temperature	-20°...+50°C / IEC 721-3-3	-20°...+50°C / IEC 721-3-3
Inventory Temperature	-30°...+60°C / IEC 721-3-2	-30°...+60°C / IEC 721-3-2
Ambient Humidity	5...95% rH non condensing	5...95% rH non condensing
Maintenance	Maintenance free	Maintenance free
Impact	Typ I / EN 60730 - I	Typ I / EN 60730 - I
Standardize	89/336/CE	89/336/CE

ACTUATOR DIMENSIONS (MM)



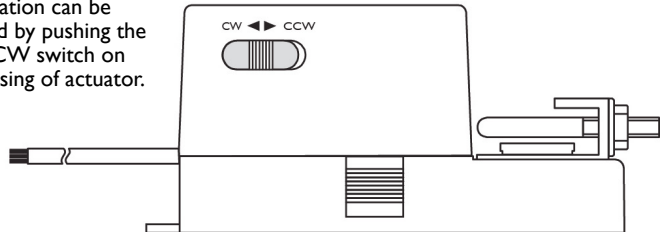
WIRING DIAGRAM

Wiring diagram NACMI.1...



Changing direction of rotation

The rotation can be reversed by pushing the CCW/CW switch on the housing of actuator.

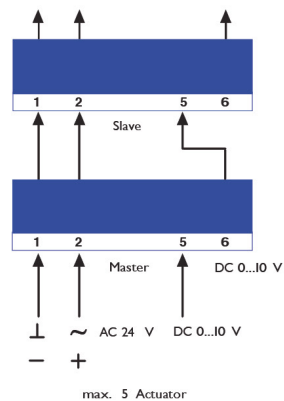


AC 230V: To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductors (with at least a 3 mm contact gap).

AC/DC 24V: Connect via safety isolating transformer.

ADJUST CONTROL SIGNAL DIAGRAM

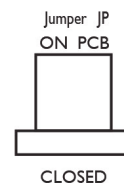
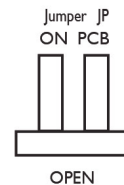
Parallel connection



Adjusting control signals NACMI.1...

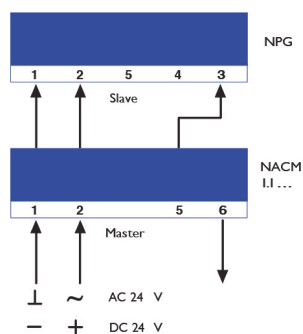
Control Signal 5 DC 0...10V
Input Resistance R_i 100 k Ohm
Factory default setting

Control Signal 5 DC 2...10V
Input Resistance R_i 500 Ohm
On request



ROTATION DIAGRAM

Positioner NPG



Angle-of-rotation limiting

Mechanical Limited Adjustment

1. Loosen 2 screws of the mechanical limited.
2. Move the limited to the appropriate position.
3. Tighten on the 2 screws.

