

NCCA...02 SERIES

COMPACT DAMPER ACTUATOR 2/3 POINT CONTROL



NCCA...02 SERIES

NCCA series is a compact, low torque actuator designed for small air dampers in HVAC systems. It is commonly used for precise airflow control in Small Damper, By-pass Damper, Fabric Duct, VAV systems, Air Handling Unit etc.

Its compact design makes it ideal for tight spaces, ensuring reliable performance in small-scale ventilation and air distribution systems.

PRODUCT FEATURE

- Torque 2 Nm
- Damper size 0.4 m²
- Power supply AC/DC 24V or AC 100...240V
- Shaft dimensions - Ø 6...13 mm / □ 6/8/10mm*
- Form fit 10 x 10mm - Produced to order (additional charge applies)
- Form fit 12 x 12mm - Produced to order
- Minimum shaft length 35 mm
- Adjustable angle of rotation
- Selectable direction of rotation
- Built-in manual override button
- The anti-rotation bracket is included in the scope of delivery
- All our actuators come with built-in overload protection and automatically stop when the end stop is reached.

MODEL SELECTION TABLE

MODEL / TYPE	TORQUE	POWER SUPPLY	RUNNING TIME	AUXILIARY SWITCH
NCCA 1-02	2 Nm	AC/DC 24 V ± 10%	<50 sec	-
NCCA 2-02	2 Nm	AC 100...240V	<50 sec	-

DIMENSION (mm)

Shaft length

	Min. 35
--	---------

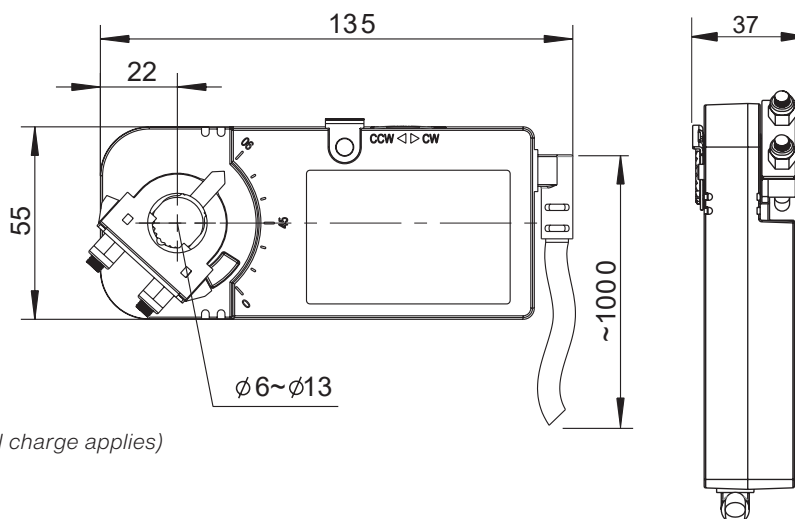
Clamping range

6...13	6/8/10	6...13

Remarks

Form fit 10 x 10mm - Produced to order (additional charge applies)

Form fit 12 x 12mm - Produced to order



TECHNICAL SPECIFICATION

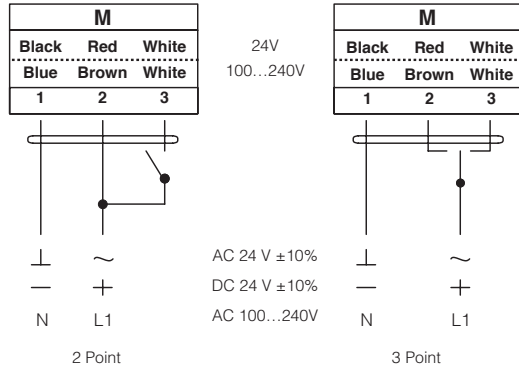
MODEL NUMBER	NCCA 1-02	NCCA 2-02
TORQUE	2 Nm	2 Nm
DAMPER SIZE	0.4 m ²	0.4 m ²
SHAFT DIMENSION	Ø 6...13 mm / □ 6/8/10mm*	
FORM FIT OPTIONS	10 x 10mm - Produced to order (additional charge applies) 12 x 12mm - Produced to order	
POWER SUPPLY	AC/DC 24 V ± 10%	AC 100...240V
FREQUENCY	50...60 Hz	50...60 Hz
CONTROL SIGNAL	2/3 point control	2/3 point control
POWER CONSUMPTION		
• OPERATING	4.0 W	4.0 W
• END POSITION	1.0 W	1.0 W
FOR WIRE SIZING	6.0 VA	6.0 VA
ELECTRICAL CONNECTION	1 m Cable	1 m Cable
PROTECTION CLASS	Class III ⚡	Class II ⚡
ANGLE OF ROTATION	90° (95° mechanical)	90° (95° mechanical)
WEIGHT	0.3 Kg	0.3 Kg
LIFE CYCLE	60,000 Rotation	60,000 Rotation
SOUND LEVEL	40 dB	40 dB
IP PROTECTION	IP54	IP54
OPERATING TEMPERATURE	-20°...50° as per IEC 721-3-3	-20°...50° as per IEC 721-3-3
NON-OPERATING TEMPERATURE	-30°...+60° C / IEC 721-3-2	-30°...+60° C / IEC 721-3-2
AMBIENT HUMIDITY	0%...90% rH non condensing / EN	0%...90% rH non condensing / EN
MAINTENANCE	Maintenance Free	Maintenance Free
MODE OF OPERATION	Type I / EN 60730-1	Type I / EN 60730-1
EMC	CE & ISO 9000 EN / EEC	CE & ISO 9000 EN / EEC

*Note that shaft dimension has a tolerance offset of ± 0.2mm.

NCCA...02 SERIES

COMPACT DAMPER ACTUATOR 2/3 POINT CONTROL

WIRING DIAGRAM NCCA...02 POWER SUPPLY AC/DC 24V OR AC100...240V

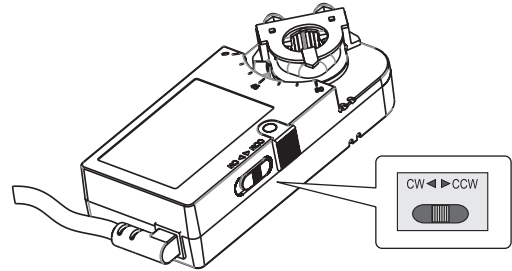


⚠ Connect via safety isolating transformer

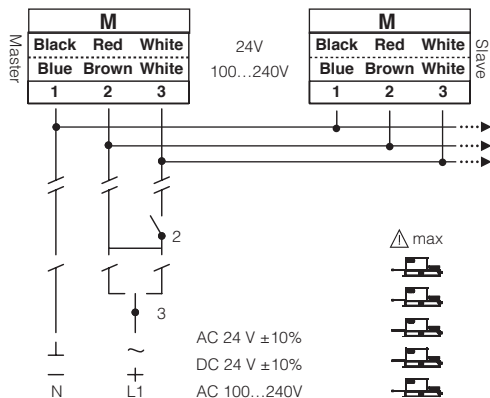
DIRECTION OF ROTATION NCCA...02

Default factory setting: CW.

Direction of rotation can be change by toggling between CW/CCW switch on the actuator's housing.



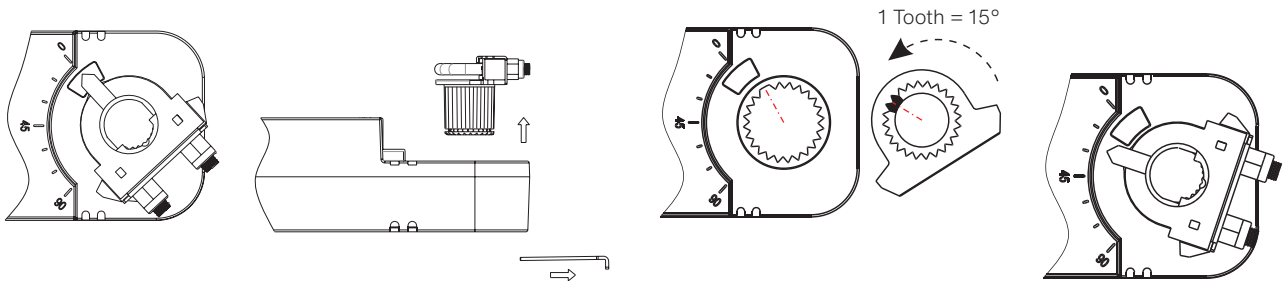
WIRING DIAGRAM NCCA...02 PARALLEL CONNECTION



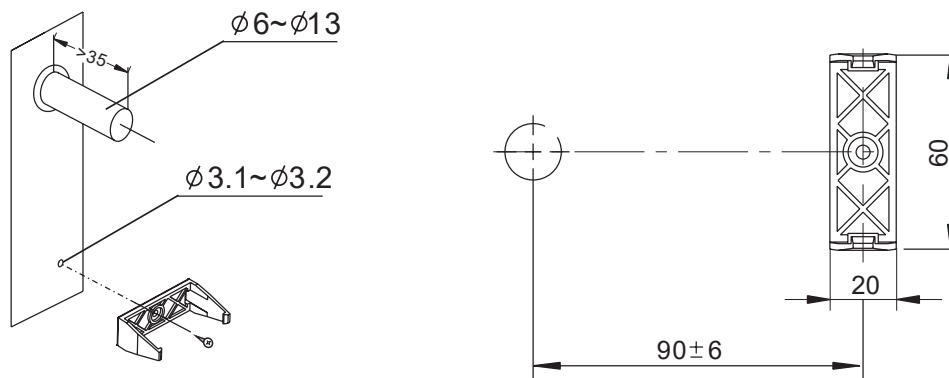
REMARK

Parallel connection of NCCA...02 actuators are limited to 5. Power consumption must be observe.

LIMITING ANGLE OF ROTATION NCCA...02



INSTALLATION / MOUNTING INSTRUCTION



IMPORTANT REMARK

For special requirement, consult your local Nenutec's representative.



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



AC / DC 24 V: Connect via safety isolating transformer.
AC 230 V: 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.)

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.

Disclaimer:

While we strive for accuracy, product specifications may change without notice. Images are for illustration only. Contact our sales team for the latest information.