

ACTUATORS FOR DAMPERS (max. 8 m²- 40 Nm)

CSG 83.. – CSG 804 Eng.

- **Power supply:**
 - CSG ..8 (230 V~) - CSG ..4 (24 V~/-)
- **Electric control:**
 - SPST or SPDT (On-Off/modulating)
 - progressive 2...10 V- (CSG 804)
- **Rotation:**
 - max. angle. 95°
 - time - 150 seconds
- **installation:**
 - directly on damper drive shaft



CSG 83../C

CSG 8...



1. APPLICATION

CSG... actuators are suitable for the operation, with linear rotary movement, of dampers in ventilating and air conditioning zones.
The available torque (10 Nm) permits operating dampers off up to 2 m² on condition that these have a very well-balanced movement..

2. MODELS

| Code | Power supply & consumption | Max rotation angle | Rotation time | Applied torque | Control | Auxiliary switch supplied |
|------------------|----------------------------|--------------------|---------------|----------------|------------------|---------------------------|
| CSG 838 | 230 V~ ± 10% (8VA) | 95° | 150 s | 40 Nm | On-Off SPST/SPDT | — |
| CSG 838/C | 230 V~ ± 10% (8VA) | 95° | 150 s | 40 Nm | On-Off SPST/SPDT | 1 SPDT |
| CSG 834 | 24 V~/– ± 20% (7VA) | 95° | 150 s | 40 Nm | On-Off SPST/SPDT | — |
| CSG 834/C | 24 V~/– ± 20% (7VA) | 95° | 150 s | 40 Nm | On-Off SPST/SPDT | 1 SPDT |
| CSG 804 | 24 V~/– ± 20% (7VA) | 95° | 150 s | 40 Nm | 2...10 V- | — |

3. ACCESSORIES (optional)

| Code | Description |
|----------------|--|
| FCS 123 | 1 SPDT auxiliary switch, with: (0.5 A) current; 1m, 3 x 0,75 mm ² cable included. 2 auxiliary SPDT switches, with: (0.5 A) current; completi di cavetto da: 1m, 6 x 0,75 mm ² cable included Built-in 0...100% manual positioner (only for CSG 804 actuators). Universal crank arm for damper drive shafts; (∅ 10 ... 18 mm.- ∩ 10 ... 14 mm.). Universal crank arm for actuators. Release lever for actuators.Connection ball joint (for shafts with ∅ 10 mm. max.). Kit for installing actuators on flat surface. |
| FCS 223 | |
| PCS 104 | |
| KH 8 | |
| AH-GMA | |
| KG 10 | |
| ZG-GMA | |

4. TECHNICAL DATA

| | | | |
|-----------------------|---------------------|-------------------------------------|------------------------------|
| Power supply: | | Type of control | see"Models" |
| – CSG ..8 | 230 V~ ± 10% | Electrical connection: (pre-set) | |
| – CSG ..4 | 24 V~/– ± 20% | – CSG 83.. (1 cable control) | 1m, 3 x 0.75 mm ² |
| Frequency | 50...60 Hz | – CSG 804 (1 cable power & control) | 1m, 4 x 0.75 mm ² |
| Consumption: | | Room temperature: | |
| – CSG ..8 | 8 VA (4.5 W) | – operation | – 30...+50 °C |
| – CSG ..4 | 7 VA (4.5 W) | – transport & storage | – 40...+80 °C |
| Torque | 40 Nm | Room humidity | 95% (EN 60730-1) |
| Run time | see "Models" | Protection | IP 54 |
| Direction of rotation | reversible | weight: | about 1.7 Kg |
| Rotation angle | max.95°(adjustable) | | |

5. INSTALLATION

Before attaching the actuator to the damper, make some preliminary checks in order to avoid any difficulties at the moment of installing.

Check:

- that there is sufficient space available to install the actuator between the damper shaft and any walls, channels or pipework which may be present in the immediate vicinity.
- the dimensions of the damper (max. 8 m²) and its equilibrium on the shaft.
- that the motor has all the parts necessary for its correct installation.

The actuator must be mounted directly on the damper shaft (∅ 14...26 mm); with a minimum projection of 52 mm.

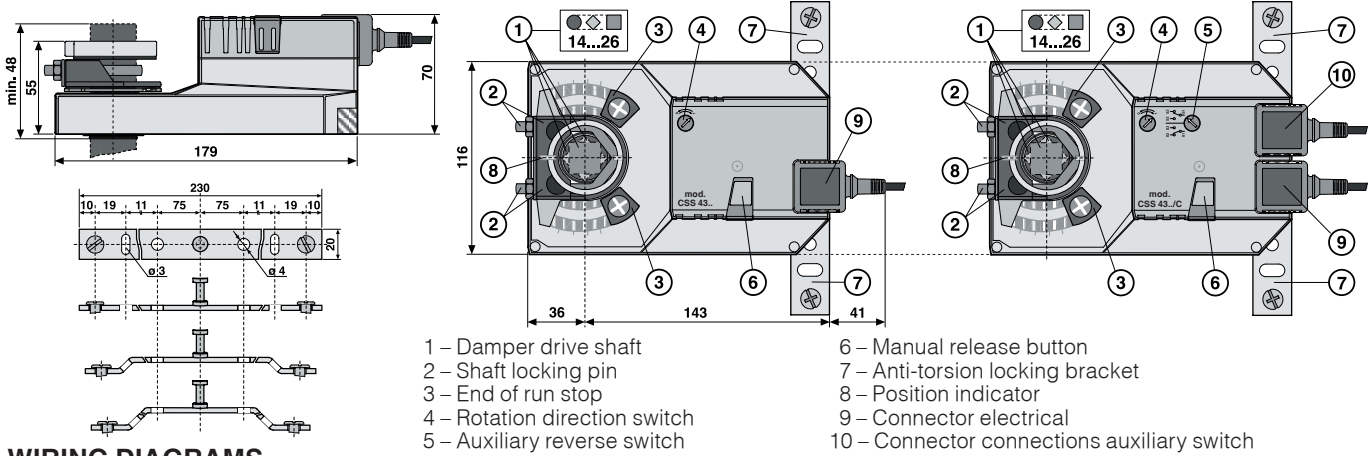
Position the damper at about half run, insert the actuator on the shaft and, using the adjustable anti-torsion bracket supplied, secure it; secure also the shaft by means of the assembled motor block.

Make the electrical connections using the cable already attached, observing the safety regulations in force.

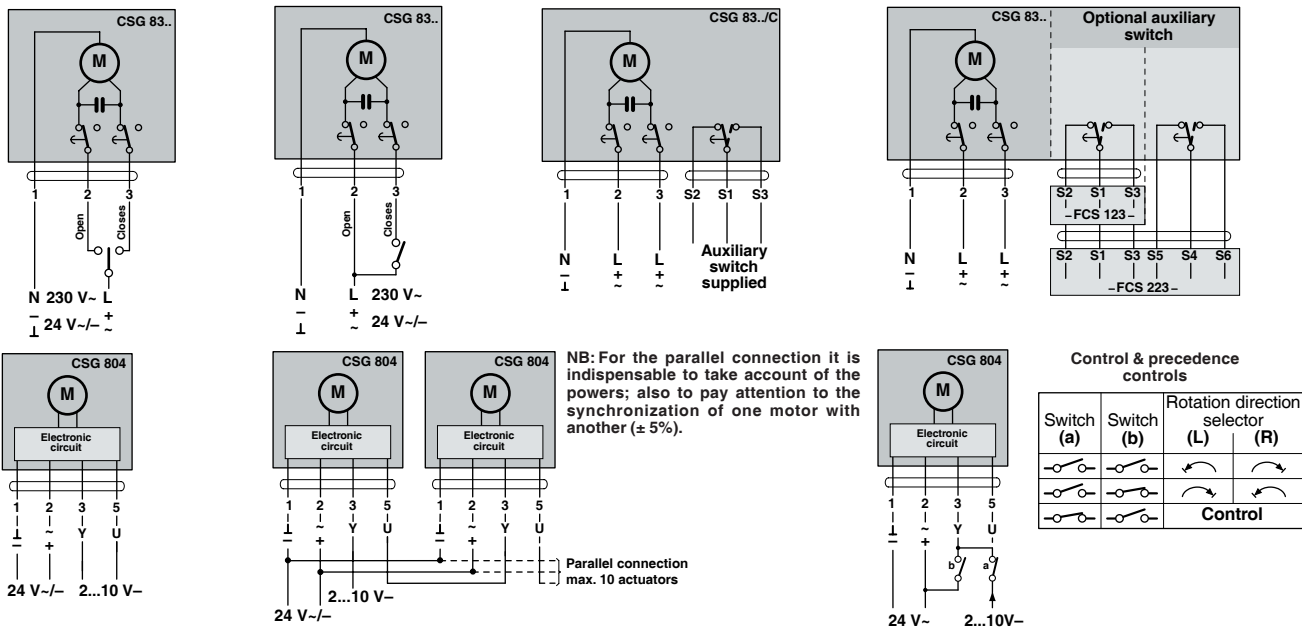
N.B. If necessary, it is possible to connect several actuators in parallel, taking into account their technical features (these must be the same).

To extend the cables supplied do NOT use telephone or similar cables.

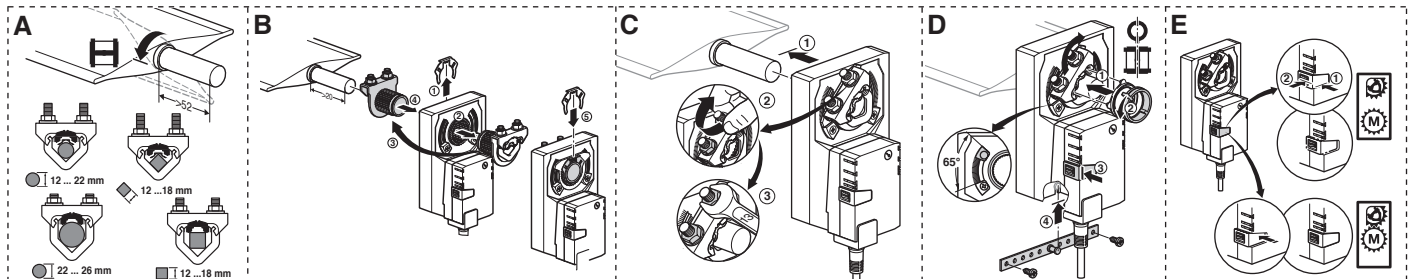
6. OVERALL DIMENSIONS - DESCRIPTION



7. WIRING DIAGRAMS



8. INSTALLATION SEQUENCE



Amendment to data sheet

| Data | Revision No. | Page | Section | Amendment description |
|-------------|--------------|------|--------------------------|---|
| 24.10.05 MC | - | - | General | Composition Data Sheet Arrangement data & page layout. Added: diagram parallel connections & precedence controls with descriptive table. Added: specific accessories for motor type (AH-GMA, ZG-GMA); All diagrams replaced (since unclear); replacement table at foot of page. |
| 27.03.06 MC | - | 1-2 | Generale | |
| 04.12.08 MC | 01 | 2 | 7. Wiring diagram | |
| | | 3 | Accessories | |
| | | 1 | 8. Installation sequence | |



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