

CM...40 (S) SERIES

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

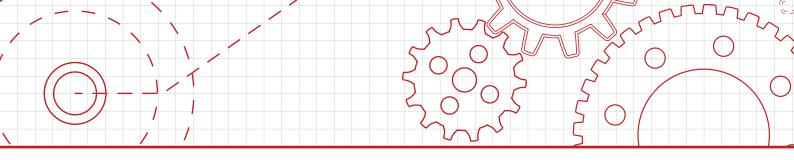


PRODUCT FEATURE

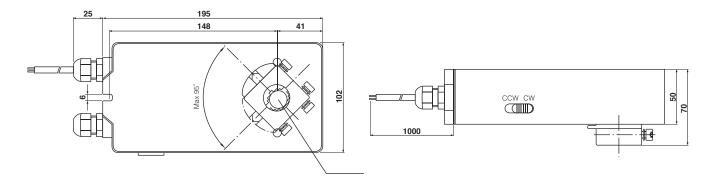
- Torque 40 Nm
- Damper size 7.0 m²
- Power supply AC/DC 24V and AC 230 V
- Control Modulating DC 0(2)...10 V
- Shaft dimensions Ø 14...20 mm / □ 10...14 mm
- Minimum Shaft Length 80 mm
- Adjustable angle of rotation
- Selectable direction of rotation of reversing actuator
- Actuator with 1 m cable connection
- Optional 2 Adjustable SPDT auxiliary switches
- Manual Over-ride push button when required

MODEL SELECTION TABLE

MODEL / TYPE	TORQUE	POWER SUPPLY	RUNNING TIME	AUXILIARY SWITCHES
CM 1.1-40	40 Nm	AC/DC 24 V ± 10%	150180 sec	-
CM 1.1-40S	40 Nm	AC/DC 24 V ± 10%	150180 sec	2 x SPDT (Adjustable)
CM 2.2-40	40 Nm	AC 230 V ± 10%	150180 sec	-
CM 2.2-40S	40 Nm	AC 230 V ± 10%	150180 sec	2 x SPDT (Adjustable)



DIMENSION (mm)



TECHNICAL SPECIFICATION

MODEL NUMBER	CM 1.1-40 (S)	CM 2.2-40 (S)
TORQUE	40 Nm	40 Nm
DAMPER SIZE	7.0 m ²	7.0 m ²
SHAFT DIMENSION	Ø 1420 mm / 🗆 1014 mm*	Ø 1420 mm / 🗆 1014 mm*
POWER SUPPLY	AC/DC 24 V ± 10%	AC 230 V ± 10%
FREQUENCY	5060 Hz	5060 Hz
CONTROL SIGNAL (INPUT)	DC 0(2)10 V	DC 0(2)10 V
POSITION SIGNAL (OUTPUT)	DC 0(2)10 V	DC 0(2)10 V
POWER CONSUMPTION		
• OPERATING	2.5 W	2.5 W
END POSITION	1.0 W	1.0 W
FOR WIRE SIZING	5.0 VA	5.0 VA
ELECTRICAL CONNECTION	1 m Cable	1 m Cable
AUXILIARY SWITCHES RATING	2 (1.5) A, AC 250 V	2 (1.5) A, AC 250 V
PROTECTION CLASS	Class III	Class II 🛛
ANGLE OF ROTATION	90° (95° mechanical)	90° (95° mechanical)
WEIGHT	2 Kg	2 Kg
LIFE CYCLE	60,000 Rotation	60,000 Rotation
SOUND LEVEL	40 dB	40 dB
IP PROTECTION	IP54	IP54
OPERATING TEMPERATURE	-30°50° as per IEC 721-3-3	-30°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	5%95% rH non condensing / EN	5%95% 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 \pm 0.2mm.

CM SERIES STANDARD DAMPER ACTUATOR

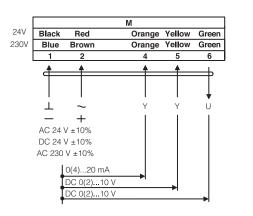
Modulating Control 40 Nm

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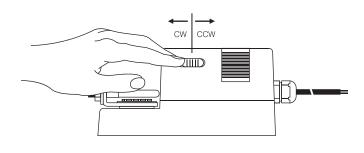
WIRING DIAGRAM CM...40 (S) POWER SUPPLY AC/DC 24V OR AC 230V



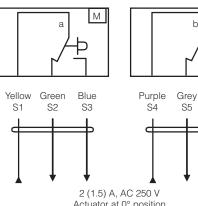
DIRECTION OF ROTATION CM...40 (S)

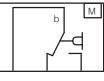
Default factory setting: CW.

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



WIRING DIAGRAM CM...40 (S) **AUXILIARY SWITCHES**



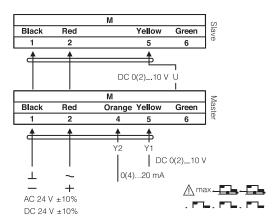


White

S6

S5 Actuator at 0° position

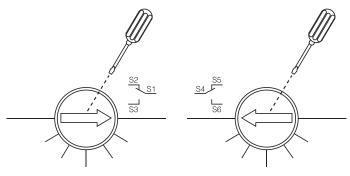
WIRING DIAGRAM CM...40 (S) PARALLEL CONNECTION



AUXILIARY SWITCH CM...40 (S)

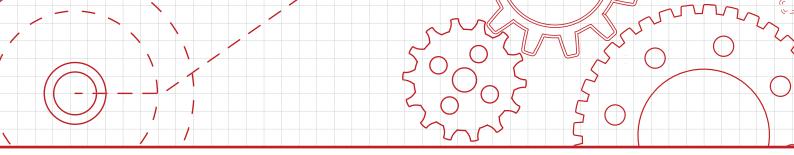
Switch a factory-set at 5° and 85°.

The auxiliary switch can be optimally adjusted between 0°...90°.



REMARK

During parallel operation, the output signal (terminal 6, DC 0(2)...10 V) of the master actuator must be connected to terminal 5 of the next slave actuator.



ADJUSTING CONTROL SIGNALS

Ri100k Ohm
DC 010V

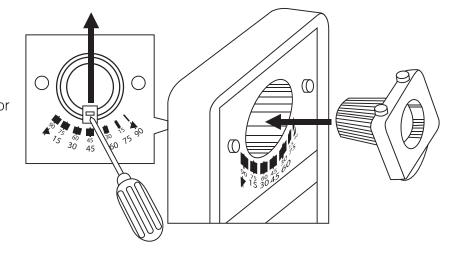
Control Signal 5 DC 2...10V Input Resistance Ri500k Ohr

On Request

Ri500k Ohm

ADJUSTING THE LIMITS FOR ROTATION

Removing the Spindle Connector



IMPORTANT REMARK

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For special requirement, consult your local Swisotec'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. Swisotec shall not be liable for damages resulting from misapplication or misuse of its products.