

DMSC-05 Series Spring Return

- **DMSC-05** Spring Return damper actuator Series are designed specifically for application into the HVAC market.
- High quality damper actuators are developed for use with air damper, butterfly valve, characterized ball valve and other devices that required a fail safe function. The actuator motorized the damper or other devices when power on and spring back to it original position when power is cut off.

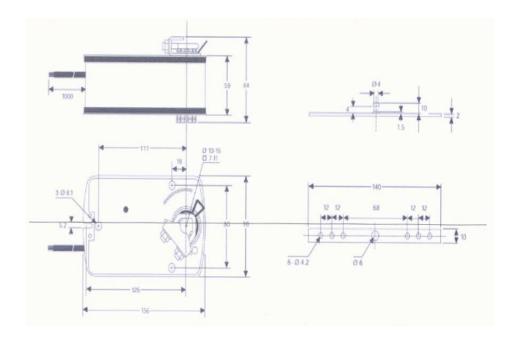
Product Features

- 2 points on/off control
- Damper Size up to 1.0 m²
- Voltage AC/DC 24V and AC 230V available
- Universal Spindle Clamp for easy direct mounting
- Shaft dimension Ø10...16 mm / 7...11 mm square
- Minimum Shaft Length 40mm
- Anti-rotation bracket provided for stability
- Adjustable angle of rotation
- Selectable direction of rotation by reversing actuator
- 2 SPDT auxiliary switches when requested
- Energy saving at end stops
- Actuators with 1m cable connection
- Customised version available on request

Model Selection Table

Torque	Running Time	Power Supply	Auxiliary Switches	Thermo sensor
5 Nm	5070 sec	AC/DC 24V	2×SPDT	NO
	Spring Back <20 se			yes
5 Nm	5070 sec	AC 230V ±10%	2 x SPDT	No
	Spring Back <20 see	C		yes

Actuator Dimensions (mm)



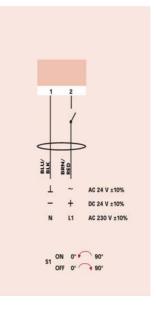
Technical Specification

Certification

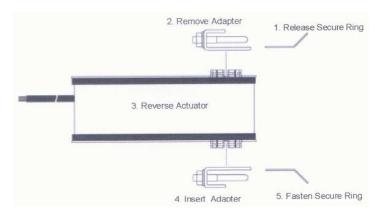
	DM-05 (S1)	DM-05 (S1)	
Torque — Motor (Rated Voltage) — Spring			
Damper Size	1 m²	1 m²	
Power Supply	AC/DC 24 V	AC 230V	
Frequency	5060Hz	5060Hz	
Power Consumption			
-Operating	7.2 W	4.2 W	
-At the end stops	2.5 W	2.5 W	
For wire sizing	10.0 VA	10.0 VA	
Auxiliary Switches Rating (Amp	3 (1.5) A / 230 V (for 24 V	3 (1.5) A / 230 V (for 24 V and	
and Voltage)	and 230 V)	230 V)	
Protection Class	II (for 24 V and 230 V)	II (for 24 V and 230 V)	
Controls Signal	2 Point On/Off	2 Point On/Off	
Angle of Rotation	90° (95° mechanical)	90° (95° mechanical)	
Angle of Rotation Limiting	5°85° in 5° step	5°85° in 5° step	
Weight	1.8 Kg	1.9 Kg	
Life Cycle	70,000 rotation	70,000 rotation	
Sound Level	Below 45 dB	Below 45 dB	
IP Protection	IP54	IP54	
Ambient Temperature	-20°50° as per IEC		
	721-3-3	-20°50° as per IEC 721-3-3	
Ambient Humidity	595% RH	595% RH	
Inventory Temperature	+70° as per 721-3-2	+70° as per 721-3-2	
Maintenance	Maintenance free	Maintenance free	

CE and ISO 9000 CE and ISO 9000 EN / EEC... Requirements EN / EEC ... Requirements

Wiring Diagram S6061-05



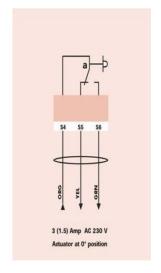
Changing Direction of Rotation DMSC-05 (S1)

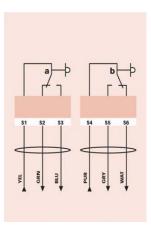


AC/DC 24V: Connect via safety isolating transformer.

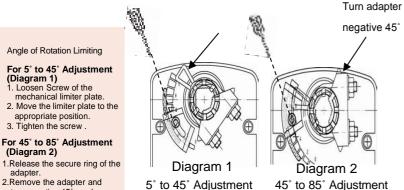
AC 230V: To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductors (with a least a 3 mm contact gap)

Auxiliary Switches S6061..05 (S1)





Angle of Rotation Limiting 5° to 85° adjustment

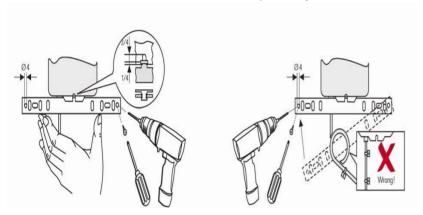


For 45° to 85° Adjustment (Diagram 2)

- adapter.
- 2.Remove the adapter and turn negative 45° as shown.
- 3.Insert adapter and secure the adapter ring.
- 4.Loosen Screw of the mechanical limiter plate
- 5. Move the limiter plate to the appropriate position
- 6. Tighten the screw

EM—Customized Version

offer actuators in customized version on request in your own brand name.



Auxiliary Switches adjustment DMSC-05 (S1) **Auxiliary Switches**

Auxiliary are fixed at 5° for switch (a) and 80° for switch (b) Auxiliary Switches are Non adjustable.