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## 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 $1.0 \mathrm{~m}^{2}$
- Voltage AC/DC 24 V and AC 230 V available
- Universal Spindle Clamp for easy direct mounting

■ Shaft dimension Ø10... $16 \mathrm{~mm} / \quad 7 . . .11 \mathrm{~mm}$ square

- Minimum Shaft Length 40 mm
- 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 1 m cable connection
- Customised version available on request


## Model Selection Table

| Torque | Running Time | Power Supply | Auxiliary Switches | Thermo sensor |
| :---: | :---: | :---: | :---: | :---: |
| 5 Nm | 50...70 sec | AC/DC 24 V | $2 \times$ SPDT | No |
|  | Spring Back <20 se |  |  | yes |
| 5 Nm | $50 . .70 \mathrm{sec}$ | AC $230 \mathrm{~V} \pm 10 \%$ | $2 \times$ SPDT | No |
|  | Spring Back <20 sec |  |  | yes |

## Actuator Dimensions (mm)



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## DMSC-05 Series Spring Return

## Technical Specification

|  | DM-05 (S1) | DM-05 (S1) |
| :---: | :---: | :---: |
| $\begin{gathered} \text { Torque — Motor (Rated Voltage) } \\ \text { — Spring } \end{gathered}$ |  |  |
| Damper Size | $1 \mathrm{~m}^{2}$ | $1 \mathrm{~m}^{2}$ |
| Power Supply | AC/DC 24 V | AC 230 V |
| Frequency | $50 . .60 \mathrm{~Hz}$ | $50 . .60 \mathrm{~Hz}$ |
| 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 and Voltage) | 3 (1.5) A / 230 V (for 24 V and 230 V ) | $\begin{gathered} 3 \text { (1.5) A / } 230 \mathrm{~V} \text { (for } 24 \mathrm{~V} \text { and } \\ 230 \mathrm{~V} \text { ) } \end{gathered}$ |
| 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 | $90^{\circ}$ (95 ${ }^{\circ}$ mechanical) | $90^{\circ}\left(95^{\circ}\right.$ mechanical) |
| Angle of Rotation Limiting | $5^{\circ} \ldots 85^{\circ}$ in $5^{\circ}$ step | $5^{\circ} \ldots 85^{\circ}$ in $5^{\circ}$ 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 | $\begin{gathered} -20^{\circ} \ldots 50^{\circ} \text { as per IEC } \\ 721-3-3 \end{gathered}$ | $-20^{\circ} . .50^{\circ}$ as per IEC 721-3-3 |
| Ambient Humidity | 5...95\% RH | 5...95\% RH |
| Inventory Temperature | +70 ${ }^{\circ}$ as per 721-3-2 | +70 ${ }^{\circ}$ as per 721-3-2 |
| Maintenance | Maintenance free | Maintenance free |

Certification

CE and ISO 9000 EN / EEC... Requirements

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Changing Direction of Rotation DMSC-05 (S1)


Auxiliary Switches S6061.. 05 (S1

AC 230 V :
To isolate from the main power supply, the the phase conductors (with a least a 3 mm contact gap)


3 (1.5) Amp AC 230 V Actuator at 0 ' position


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Angle of Rotation Limiting $5^{\circ}$ to $85^{\circ}$ adjustment


## Auxiliary Switches adjustment DMSC-05 (S1)

## Auxiliary Switches

Auxiliary are fixed at $5^{\circ}$ for switch (a) and $80^{\circ}$ for switch (b)
Auxiliary Switches are Non adjustable.

## EM-Customized Version

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


