Honeywell

DM SERIES

ZONE DAMPER MOTOR (FEMALE TYPE)

PRODUCT SPECIFICATION SHEET

FEATURES

- Control by a low or line voltage SPDT controller
- 24Vac or 240Vac versions of actuators available
- Bi-directly driven zone damper motor with torque up to 2.0Nm (Non –Spring return)
- Led Indicator
- Position indicator

SPECIFICATION

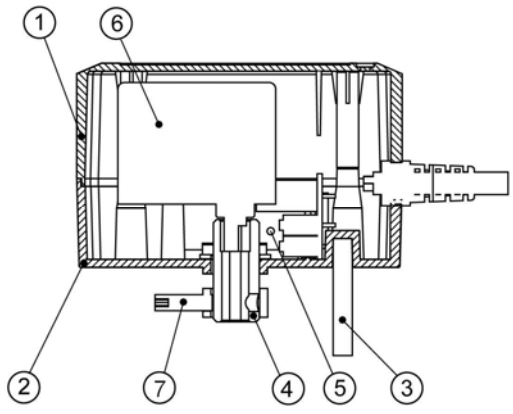
Model	Power Supply	Torque	Color	Direction	1 cycle	Shaft
DM2000F 1024	24VAC 50Hz	2.0Nm	Red, Black	Bi-direction	24sec	Female
DM2000F 1240	240VAC 50Hz	2.0Nm	Red, Black	Bi-direction	24sec	Female

Table 1. Model selection guide

APPLICATION

The DM series is a two-position, 24/240 Vac drive open/drive close damper motor designed to operate bi-directly driven zone dampers, used to control air flow in ducts.

The motor can be driven open using any 24/240Vac rated SPDT switch – e.g. a wall switch or a thermostat sub-base switch.



LEGEND:
1. Cover
2. Base
3. Anti-rotation
4. Shaft adapter
5. Cam
6. Motor
7. Set screw

Fig. 1 Mechanical Structure

Electrical rating	: 24/240Vac, 50Hz, 5watts(max)
Electrical connection	: 1 meter cable attached for 240Vac, RJ12 connector for 24Vac
Nominal angular rotation	: 90°
Torque	: Min.2.0Nm(281in.oz) output torque available when motor is energized
Damper shaft	: Max. 6x6mm(square), 8mm(round)
Motor timing	: Energized–at rated load, with 25°C ambient : 24sec / 1cycle nominal
Ambient temperature rating	: 0 to 60°C (32 to 140°F)
Direction of shaft rotation	: Bi-direction (CW & CCW)
Mounting means	: Direct connection to damper shaft
Mounting Position	: Multi-position

Contents

WARNING

1. Do not attempt to simulate operation of the motor by rotating the connection coupling or the damper shaft when it is in operation.
2. Attempting to operate the motor in this way can result in stripping the gears in the drive train of the operator.
3. Honeywell is not responsible for any damages resulting from the misapplication or misuse of its products.

CAUTION

Disconnect Power Supply before wiring the controller to prevent electrical shock and equipment damage.

DIMENSION

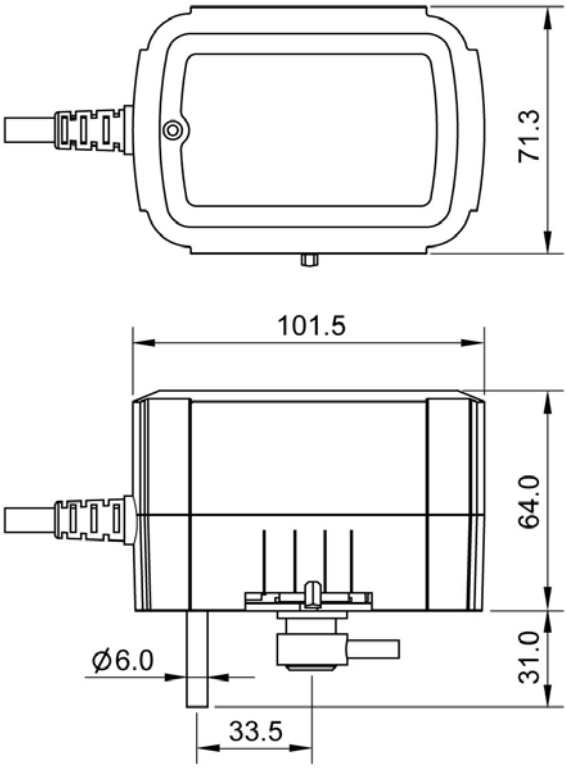


Fig. 2 Dimensional Details (mm)

INSTALLATION

The DM female series can be mounted directly onto the protruding damper shaft using the sleeve attached to the motor output shaft. Drill the prescribed hole directly below the damper shaft to accept the anti-rotation shaft protruding from the base of the motor. The length of the damper shaft to which the motor sleeve is attached is such as to firmly hold the motor in a position to adequately engage the anti-rotation pin in the duct. See Figure 2 for dimensions.

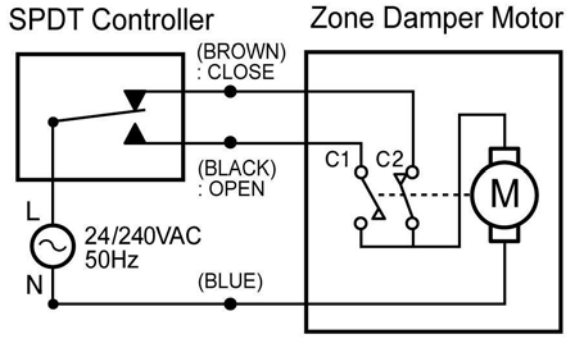
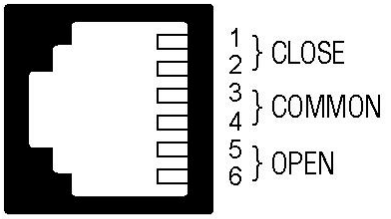


Fig. 3 Wiring Diagram – 240Vac



Connect OPEN and CLOSE 24VAC active via RJ12 MALE JACK.

APPROVALS : C-Tick

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