

**Feature:**

- Mounts easy on round & square shaft (with option -8).
- External clutch for manual adjustments.
- Maintenance free.
- Position indicator.
- Fail safe by *Enerdrive System*¹
- Auxiliary switches (on model 2080).

MDMS2060

New Number

DM060S

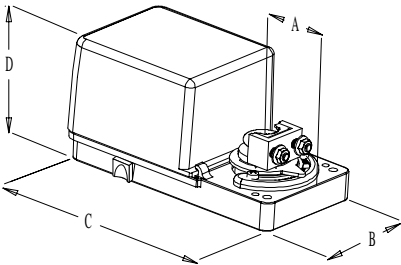
MDMS2080

DM080S

Technical Data	MDMS2060 DM060S	MDMS2080 DM080S
Auxiliary switches	No	Yes (2)
Fail safe - <i>Enerdrive</i>	Yes	
Power consumption	20VA Peak, 6VA	
Torque	50 in.lb. [5,6 Nm] at rated voltage (Fail-safe 35 in.lb. [3,9 Nm])	
Running time through 90°	90 - 110 sec (Fail-safe 70-80 sec)	
Power supply	22 to 26 VAC or 28 to 32 VDC	
Electrical connection	18 AWG [0.8 mm ²] minimum	
Inlet bushing	2 inlet bushing of 5/8 in [15.9 mm] & 7/8 in [22.2 mm]	
Control signal	2 to 10 VDC or 4 to 20 mA (factory set 2 to 10 VDC)	
Angle of rotation	0 to 90 degrees, mechanically adjustable (factory set with 90° stroke)	
Direction of rotation	Reversible, Clockwise (CW) or Counterclockwise (CCW) (factory set with CW direction)	
Ambient temperature	0°F to +122°F [-18° C to +50° C]	
Storage temperature	-22°F to +122°F [-30° C to +50° C]	
Relative Humidity	5 to 95 % non condensing.	
Weight	3 lbs. [1.4 kg]	

Warning: Do not press the clutch when actuator is powered

Dimensions



Dimension	Inches	Metric (mm)
A	1.50	38.1
B	3.26	82.8
C	6.60	167.5
D	model 2060	3.01
	model 2080	3.72

Caution

We strongly recommend that all neptronic® products be wired to a separate transformer and that transformer shall service only neptronic® products. This precaution will prevent interference with, and/or possible damage to incompatible equipment.
When multiple actuators are wired on a single transformer, polarity must be observed. Long wiring runs create voltage drop which may affect the actuator performance.

¹ Enerdrive System U.S.A. Patent #5,278,454

Mechanical installation

MOUNTING BRACKET

CLUTCH

1. Manually close the damper blades and positioned the actuator at 0° or 90°.
2. Slide the actuator onto the shaft.
3. Tighten the nuts on the “U” bolt to the shaft with a 8mm wrench to a torque of 60 in.lb. [6,7 Nm].
4. Slide the mounting bracket under the actuator. Ensure free movement of the slot at the base of the actuator. The bracket pin must be placed in the mid distance of the slot.
5. Fix the bracket to the ductwork with #8 self-tapping screws.

Wiring Diagrams

Analogue

COMMON

SUPPLY

2 to 10 VDC

WITH JUMPER ON TOP

4 to 20 mA

COMMON

SUPPLY

4 to 20 mA

WITH JUMPER ON BOTTOM

PC Board

BM060VAV

Potentiometer

Terminal

Control signal selection

Rotation direction

Fail safe direction

Dip switch settings

Rotation direction (SW1)

CW (0 to 90°)

CCW (90 to 0°)

Fail safe direction (SW2)

Fail safe return at 0°

Fail safe return at 90°

Stroke adjustment

To adjust the stroke, move the adjustment screws at the desired position.