BM000S

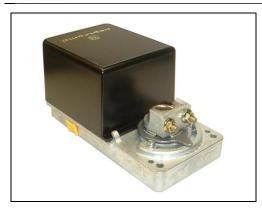
BM020S

BM060S

BM080S







Feature:

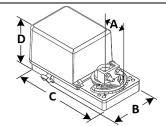
Mounts easy on round
 & square shaft (with option –8).

• External clutch for manual adjustments.

- Maintenance free.
- Position indicator.
- Fail safe by *Enerdrive System*¹ (on model 60 & 80).
- Auxiliary switches (on model 20 & 80).

Technical Data	BM000S	BM060S	BM020S	BM080S	
Fail safe - Enerdrive	No	Yes	No	Yes	
Power consumption	6 VA	20 VA Peak, 6 VA	6 VA	20 VA Peak, 6 VA	
Power supply	22 to 26 VAC or 28 to 32 VDC				
Approvals	C € Usted				
Auxiliary switches	No		Yes		
Ingress protection	IP22 equivalent to Nema type 2, IP54 equivalent to Nema type 3R if water tight inlet bushings (not supplied NEP617) are installed		IP22 equivalent to Nema type 2		
Torque	50 in.lb. [5,6 Nm] at rated voltage				
Running time through 90°	90 - 110 sec (Fail-safe20-30 sec)				
Electrical connection	18 AWG [0.8 mm²] minimum				
Inlet bushing	2 inlet bushing of 13/16" [20.6mm]				
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	-22°F to +122°F [-30° 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 pro	ess the clutch when ac	tuator is powered	j	

Dimensions



Dimension		Inches	Metric (mm)
A		1.50	38.1
В		3.64	92.5
С		6.60	167.5
D	model 00 & 60	3.02	76.8
	model 20 & 80	3.81	96.8

Caution

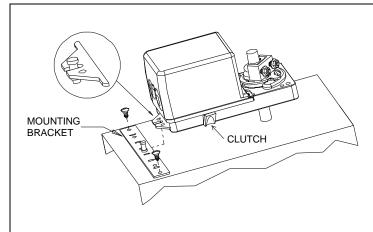
We strongly recommend that all Neptronic® products be wired to a separate transformer and that transformer shall service only Neptronic® products. This precaution will prevent interference with, and/or possible damage to incompatible equipment.

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.

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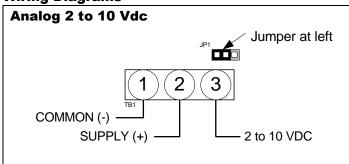
¹ Enerdrive System U.S.A. Patent #5,278,454 BMS-210802

Mechanical installation



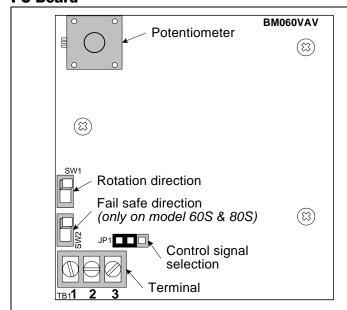
- 1. Manually close the damper blades and positioned the actuator at 0° or 90°.
- 2. Slide the actuator onto the shaft.
- 3. Tighten the nuts on the "U" bolt to the shaft with a 8mm wrench to a torque of 60 in.lb. [6,7 Nm].
- 4. Slide the mounting bracket under the actuator. Ensure free movement of the 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.

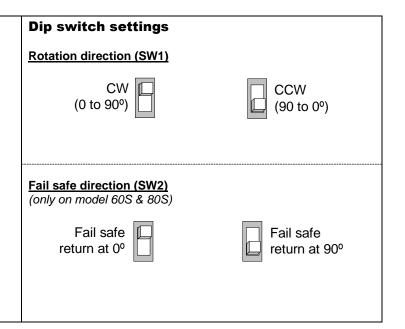
Wiring Diagrams



Analog 4 to 20 mA Jumper at right COMMON (-) SUPPLY (+) 4 to 20 mA

PC Board





Stroke adjustment

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