





Feat

Position indicator.

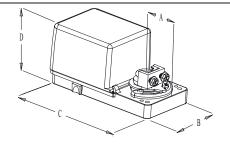
Fail safe by Enerdrive System¹ (on model 060 & 080).

Auxiliary switches (on model 020 & 080).

<u>ature</u> :	Old Number		
Mounts easy on round	BBTF1000A	BT000F	
& square shaft (with option –8).	BBTF1021A	BT020F	
External clutch for manual adjustments.	BBTF1060A	BT060F	
Maintenance free.	BBTF1080A	BT080F	

BT000F	BT060F	BT020F	BT080F	
BBTF1000A	BBTF1060A	BBTF1021A	BBTF1080A	
No	Yes	No	Yes	
15 VA	24VA Peak, 15VA	15 VA	24VA Peak, 15VA	
3 wire / 2 position, 3 wire / 3 point floating	2 wire / 2 position, 4 wire / 3 point floating	3 wire / 2 position, 3 wire / 3 point floating	2 wire / 2 position, 4 wire / 3 point floating	
No Yes (2)		s (2)		
IP54 equivalent to Nema	type 3R if water tight inlet	IP22 equivalent to Nema type 2		
6 to 8 sec Torque dependant				
50 in.lb. [5,6 Nm] at rated voltage				
22 to 26 VAC or 28 to 32 VDC				
18 AWG [0.8 mm²] minimum				
2 inlet bushing of 5/8 in [15.9 mm] & 7/8 in [22.2 mm]				
0 to 90 degrees, mechanically adjustable (factory set with 90° stroke)				
Reversible, Clockwise (CW) or Counterclockwise (CCW) (factory set with CW direction)				
-22°F to +122°F [-30°C to +50°C]				
-22°F to +122°F [-30°C to +50°C]				
5 to 95 % non condensing.				
3 lbs. [1.4 kg]				
	BBTF1000A No 15 VA 3 wire / 2 position, 3 wire / 3 point floating N IP22 equivalent IP54 equivalent to Nema bushings (not supplied	BBTF1000A No Yes 15 VA 24VA Peak, 15VA 3 wire / 2 position, 3 wire / 3 point floating No IP22 equivalent to Nema type 2, IP54 equivalent to Nema type 3R if water tight inlet bushings (not supplied NEP617) are installed 6 to 8 sec Tore 50 in.lb. [5,6 Nm 22 to 26 VAC company of 5/8 in [15] 0 to 90 degrees, mechanically adjutable Reversible, Clockwise (CW) or Counterclocompany of 5 to 95 % nor	BBTF1000A No Yes No 15 VA 24VA Peak, 15VA 3 wire / 2 position, 3 wire / 3 point floating No IP22 equivalent to Nema type 2, IP54 equivalent to Nema type 3R if water tight inlet bushings (not supplied NEP617) are installed 6 to 8 sec Torque dependant 50 in.lb. [5,6 Nm] at rated voltage 22 to 26 VAC or 28 to 32 VDC 18 AWG [0.8 mm²] minimum 2 inlet bushing of 5/8 in [15.9 mm] & 7/8 in [22.2 mm] 0 to 90 degrees, mechanically adjustable (factory set with 90° strong to 122°F to +122°F [-30°C to +50°C] -22°F to +122°F [-30°C to +50°C] 5 to 95 % non condensing.	

Dimensions



Dimension		Inches	Metric (mm)	
A		1.50	38.1	
В		3.26	82.8	
	С	6.60	167.5	
D	model 000 & 060	3.01	76.4	
	model 020 & 080	3.72	94.5	

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.

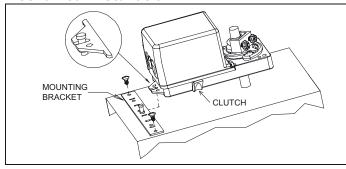






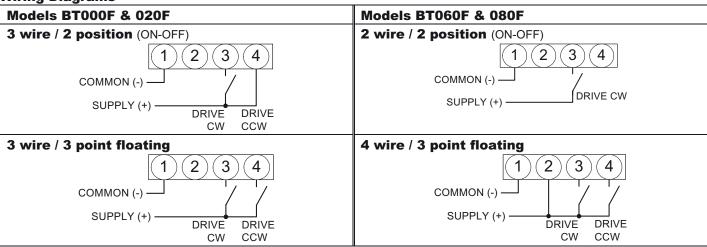
¹ Enerdrive System U.S.A. Patent #5,278,454

Mechanical installation

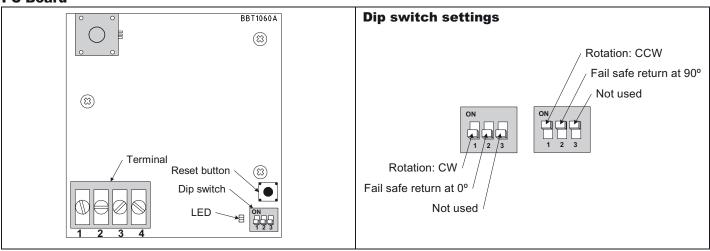


- 1. Manually close the damper blades and positioned the actuator at 0° or 90°.
- 2. Slide the actuator onto the shaft.
- 3. Tighten the nuts on the "U" bolt to the shaft with a 8mm wrench to a torque of 60 in.lb. [6,7 Nm].
- Slide the mounting bracket under the actuator. Ensure free movement of the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



PC Board



Stroke adjustment

To adjust the stroke, press and release the reset button to start the auto-stroke process. The LED should be illuminated.

- First option:
 - The actuator will then travel in both directions to find it's limit.
- The LED will extinguish, the process is complete.
- · Second option:

When the desired end position is reached, press and release the reset button. The actuator will now return back to its origin position. (you can also press and release the reset button when It's reaches the origin position) The LED will extinguish, the process is complete.