Actuator



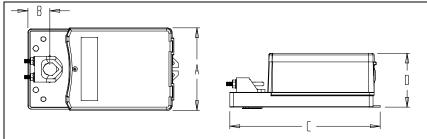
Specification & Installation instruction



ature:	Old Number	
Clutch for manual adjustments.	TBTF3000A	TT000F
Maintenance free.	TBTF3021A	TT020F
Position indicator.	TBTF3060A	TT060F
Fail safe by Enerdrive System ¹	TBTF3080A	TT080F
(on model 060 & 080).	RBTF5000A	RT000F
Auxiliary switches	RBTF5021A	RT020F
on model 020 & 080).	RBTF5060A	RT060F
	RBTF5080A	RT080F

Technical Data	TT000F	TT020F	TT060F	TT080F	RT000F	RT020F	RT060F	RT080F	
	TBTF3000A	TBTF3021A	TBTF3060A	TBTF3080A	RBTF5000A	RBTF5021A	RBTF5060A	RBTF5080A	
Auxiliary switches	No	Yes(2)	No	Yes (2)	No	Yes(2)	No	Yes (2)	
Fail safe - Enerdrive	No		Yes		No		Yes		
Power consumption	10 VA		24 VA Peak, 10 VA		18 VA		40 VA Peak, 18 VA		
Control signal	3 wire / 2 3 wire / 3 p		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		
Weight		4.5 lbs. [2 kg]			7 lbs. [3.2 kg]				
Torque	12	120 in.lb. [13.5 Nm] at rated voltage			240 in.lb. [27 Nm] at rated voltage				
Running time through 90º	20 to 30 sec Torque dependant								
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 7/8 in [22.2 mm]								
Angle of rotation	0 to 90 degrees, electronically 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.								
	Warning	: Do not p	ress the cl	utch when	actuator	is powered	ł		

Dimensions



Dimension	Inches	Metric (mm)
Α	5.20	132.1
В	1.33	33.8
С	9.13	231.9
D	3.55	90.2

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.

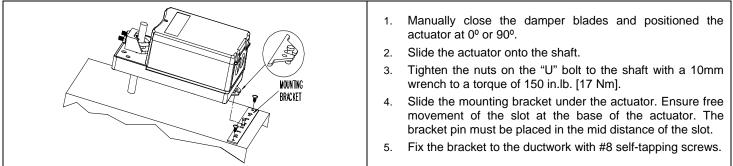
LISTED TEMPERATURE REGULATING EQUIPMENT 41 X 9

CLASS 2 CIRCUIT

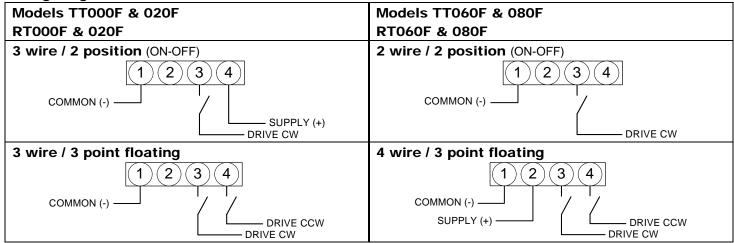
¹ Enerdrive System U.S.A. Patent #5,278,454



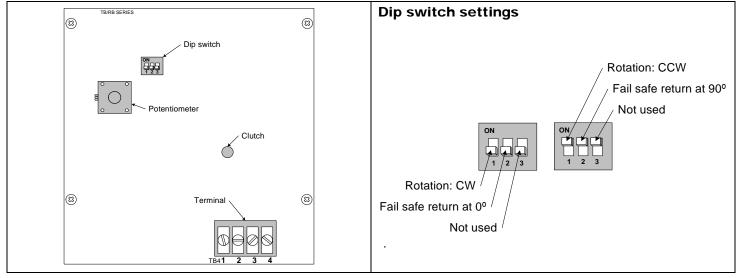
Mechanical installation



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 original position. (you can also press and release the reset button when It's reaches the original position) The LED will extinguish, the process is complete.