Specification & Installation instructions

neptronic



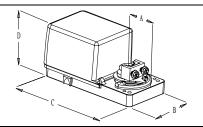
Feature:	Old number
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- **MDTS** Mounts easy on round & square shaft (with option -8). **MDTS** External clutch for manual adjustments. **MDTS**
- Maintenance free.
- Position indicator.
- Fail safe by Enerdrive System¹
- Auxiliary switches (on model 80S).

1060	DT060S	
1065	DT065S	
1080	DT080S	
	DT160S	
	DT165S	
	DT180S	
	DT260S	
	DT265S	
	DT280S	

Technical Data	DT060S MDTS1060	DT065S MDTS1065	DT080S MDTS1080	DT160S	DT165S	DT180S	DT260S	DT265S	DT280S
Auxiliary switches	No	No	Yes (2)	No	No	Yes (2)	No	No	Yes (2)
Feedback	No	Yes	No	No	Yes	No	No	Yes	No
Power supply	22 to 26 VAC or 28 to 32 VDC			110 to 130 VAC 50/60Hz 220 to 250 VAC 50/60Hz					/60Hz
Power consumption	15VA Peak, 6VA			12VA Peak, 6VA					
Control signal	2 wire / 2 position, 4 wire / 3 point floating			3 wire / 2 position, 4 wire / 3 point floating					
Torque	50 in.lb. [5,6 Nm] at rated voltage (Fail-safe 35 in.lb. [3,9 Nm])			35 in.lb. [4 Nm] at rated voltage					
Running time through 90°	90 - 110 sec, (Fail-safe 70-80 sec)			90 - 110 sec, (Fail-safe25-50 sec)					
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					
Approvals	UL LISTED			Class 2					
Fail safe - Enerdrive	Yes								
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]								
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 press the clutch when actuator is powered									

Dimensions



	Dimension	Inches	Metric (mm)
	Α	1.50	38.1
	В	3.26	82.8
	С	6.60	167.5
D	model 0XX	3.01	76.4
ט	model 1XX & 2XX	3.72	94.5

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Caution

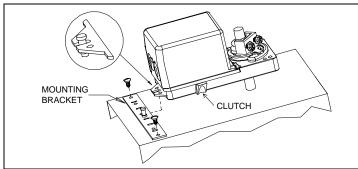
We strongly recommend that all neptronic® products be wired to a separate transformer and that transformer shall service only neptronic® products. This precaution will prevent interference with, and/or possible damage to incompatible equipment. When multiple actuators are wired on a single transformer,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



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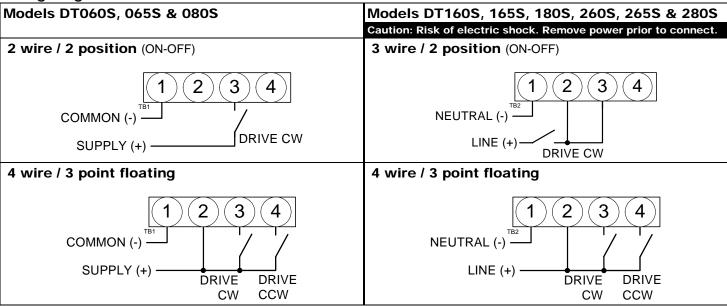
¹ Enerdrive System U.S.A. Patent #5,278,454

Mechanical installation

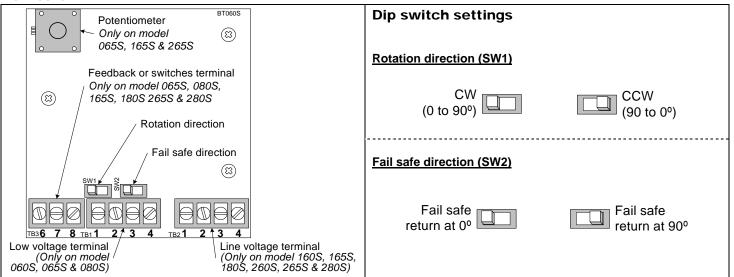


- 1. Manually close the damper blades and positioned the actuator at 0° or 90°.
- 2. Slide the actuator onto the shaft.
- 3. Tighten the nuts on the "U" bolt to the shaft with a 8mm wrench to a torque of 60 in.lb. [6,7 Nm].
- 4. Slide the mounting bracket under the actuator. Ensure free movement of the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



PC Board



Stroke adjustment

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