Actuator Specification & Installation instructions



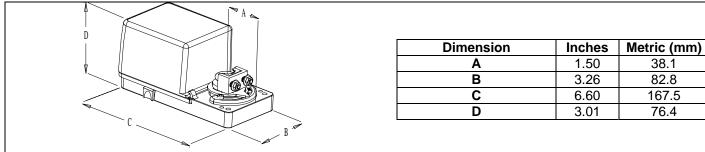
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<u>eature</u> :	CM060S
 Mounts easy on round & square shaft (optional). 	CM080S
 External clutch for manual adjustments. 	CM160S
Maintenance free.	CM180S
Position indicator.	CM260S
 Fail safe by Enerdrive System¹ 	CM280S

Auxiliary switches . (on models ending by 80S)

Technical Data	CM060S	CM080S	CM160S	CM180S	CM260S	CM280S	
Auxiliary switches	No	Yes(2)	No	Yes(2)	No	Yes(2)	
Power supply	22 to 26VAC 50/60	Hz or 28 to 32VDC	2 or 28 to 32VDC 110 to 130 VAC 50/60Hz 220 to 250 VAC 50/60Hz				
Approvals		Class 2					
Torque	18 in.lb. [2 Nm] at rated voltage						
Fail safe - Enerdrive	Yes						
Power consumption	10 VA Peak, 3 VA						
Control signal	2 to 10 VDC						
Running time through 90°	80 - 100 sec (Fail-safe20-40 sec)						
Electrical connection	18 AWG [0.8mm 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	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.						
Ingress protection	IP22 equivalent to Nema type 2, IP54 equivalent to Nema type 3R if water tight inlet bushings (not supplied NEP617) are installed						
Weight	3 lbs. [1.4 kg]						
Warning: Do not pre	ess the clutch	when actuate	or is powered	1			

Dimensions



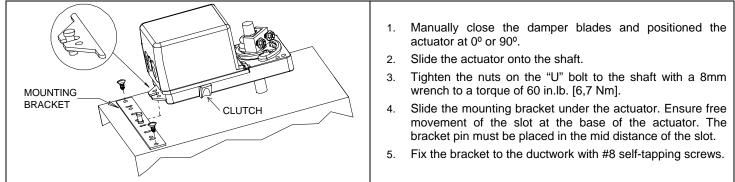
Caution

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.

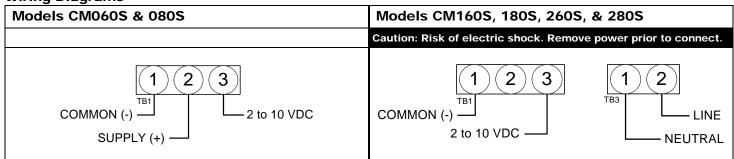
¹ Enerdrive System U.S.A. Patent #5,278,454



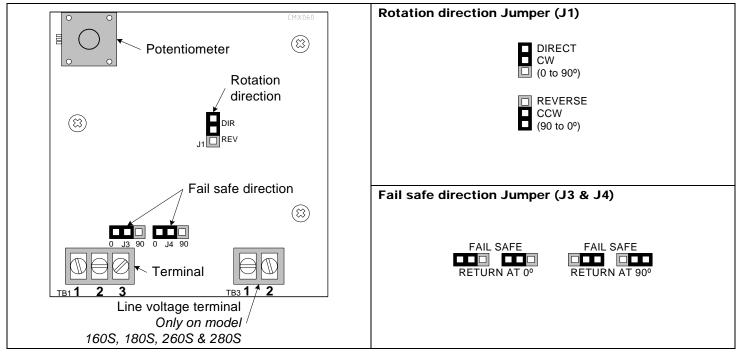
Mechanical installation



Wiring Diagrams



PC Board



Stroke adjustment

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