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T Series Actuator (line voltage)
180 in.lb. (20 Nm) torque



PRIMARY USES FOR THESE ACTUATORS

- medium size air handler dampers
- 1/4 turn valves

These quarter turn actuators may be directly coupled to either a 3/4 inch round or 5/8 inch square jack shaft or remotely mounted using an adaptor kit. All actuators are bi-directional. Enerdrive actuators are also bi-directional under fail safe conditions. The stroke may be limited to less than 90° mechanically in digital models (with SLD sold separately) and electronically in Multi Signal models.

GENERAL SPECIFICATIONS

<i>Power Supply:</i>	24Vac, 30Vdc, 120Vac, and/or 240Vac Depending upon the Model
<i>Power Consumption:</i>	Peak at Start-up: 10VA to 45VA at Line Voltage Depending upon the Model Operating at Full Load: 10VA to 20VA at Line Voltage Depending upon the Model
<i>Wire Size:</i>	18 AWG (0.8 mm ²) Minimum
<i>Electrical Connections:</i>	Two 7/8 in. (22.2 mm) Knock Outs, Screw Terminals
<i>Control Signals:</i>	Digital (TT): 2 Wire or 3 Wire 2 Position and/or 4 Wire 3 Point Floating Depending upon the Model Multi Signal (TM): ANALOG: A) 2-10Vdc; or B) May be Externally Wired with a 500 Ohm Resistor which is Supplied for 4-20mA , Zero & Span Adjustable PULSE WIDTH MODULATION: Time Base of 0.1 to 5 sec/20mS Resolution or 0.1 to 25 sec/100mS Resolution Selected by Dip Switch Position SWITCH 24Vac: Triac or Dry Contact, 40mA Max. Switching Current sw1rcH COMMON: NPN Transistor, SCR, Triac or Dry Contact 75mA Max. Switching Current DIGITAL: 3 Wire 2 Position or 4 Wire 3 Point Floating
<i>Torque:</i>	180 in.lb. (20 Nm) at Rated Voltage
<i>Direction & Time of Rotation:</i>	Reversible, 40 to 50 sec or 60 to 85 sec, 0-180 in.lb. (0-20 Nm) Depending upon the Model
<i>Ambient Temperature:</i>	0°F to +122°F (-18°C to +50°C)
<i>Feedback Potentiometer:</i>	In Digital (TTXX5): Voltage (0-12Vdc max) In Multi Signal (TM): 4-20mA Output (May be wired for a 2-10Vdc signal)
<i>Fail Safe (Enerdrive) Rating:</i>	Models Ending in 60, 65, 80 or 60N: 180 in.lb. (20 Nm)
<i>Enerdrive Response Time:</i>	60 to 85 sec Closure Through 90°. 0-180 in.lb.(0-20 Nm)
<i>Auxiliary Switches:</i>	Models Ending in 20, 80 or 20N: 2 Mechanical Switches, Fixed at 10° & 80°
<i>Auxillary Switch Rating:</i>	5 Amp Resistive, 250Vac
<i>Electronic Enclosure:</i>	Flammability rating ULg4-5V Option W: IP65 equivalent to Nema type 4 enclosure with special protection against chemicals



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T Series (line voltage) Quick Select

Actuator Models	Power			Control Signals					Time In sec Thru 90° Arc	Actuator Features				
	Nom. Supply	Consumption		Digital		Multi Signal				Feed Back	Auto Stroke	Zero & Span	Fail Safe (Enerdrive)	2 Mech. Aux. Switches
		Start Up	Full Load	2 POS	3 PT FLT	2-10 Vdc	4-20 mA	PWM						
TT300	120Vac 240Vac	10VA	10VA						60 to 85					
TT305	120Vac 240Vac	10VA	10VA						60 to 85					
TT320	120Vac 240Vac	10VA	10VA						60 to 85					
TT360	120Vac 240Vac	30VA	10VA						60 to 85			•		
TT365	120Vac 240Vac	30VA	10VA						60 to 85			•		
TT380	120Vac 240Vac	30VA	10VA						60 to 85			•	•	
TM300	24Vac 30Vdc 120Vac 240Vac	10VA	10VA						60 to 85					
TM320	24Vac 30Vdc 120Vac 240Vac	10VA	10VA						60 to 85				•	
TM360	24Vac 30Vdc 120Vac 240Vac	30VA	10VA						60 to 85			•		
TM380	24Vac 30Vdc 120Vac 240Vac	30VA	10VA						60 to 85			•	•	
TM100N	24Vac 30Vdc 120Vac	20VA	20VA						40 to 50					
TM200N	24Vac 30Vdc 240Vac	20VA	20VA						40 to 50					
TM120N	24Vac 30Vdc 120Vac	20VA	20VA						40 to 50					
TM220N	24Vac 30Vdc 240Vac	20VA	20VA						40 to 50					
TM160N	24Vac 30Vdc 120Vac	45VA	20VA						40 to 50					
TM260N	24Vac 30Vdc 240Vac	45VA	20VA						40 to 50					
TM180N	24Vac 30Vdc 120Vac	45VA	20VA						40 to 50					
TM280N	24Vac 30Vdc 240Vac	45VA	20VA						40 to 50					

Note: All actuators are powered by brush motors except those ending with the letter "N"



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