





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

Power Supply: 24Vac/30Vdc

Power Consumption: Peak at Start-up: 8VA to 40VA at 26Vac Depending upon the Model

Operating at Full Load: 8VA to 15VA at 26Vac Depending upon the Model

Wire Size: 18 AWG (0.8 mm²) Minimum

Flectrical Connections: Two 7/8 in. (22.2 mm) Knock Outs, Screw Terminals

Control Signals: Digital (TT):

2 Wire or 3 Wire 2 Position and/or 3 Wire 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 0.1-5 Sec/20mS Resolution or

0.1-25 Sec/100mS Resolution Selected by Dip Switch Position SWITCH 24Vac: Triac or Dry Contact, 40mA Max. Switching Current

SWITCH COMMON: NPN Transistor, SCR, Triac or Dry Contact 75mA Max. Switching Current

DIGITAL: 3 Wire 2 Position or 4 Wire 3 Point Floating

Torque: 180 in.lb. (20 Nm) at Rated Voltage

Direction & Time of Rotation: Reversible, 40 to 50 sec or 60 to 85 sec, 0-180 in.lb. (0-20 Nm) Depending upon the Model

Ambient Temperature: 0°F to +122°F (-18°C to +50°C)

Feedback Potentiometer: In Digital (TTXX5): Voltage (0-12Vdc max)

In Multi Signal (TM): 4-20mA Output (May be wired for a 2-10Vdc signal)

Fail Safe (Enerdrive) Rating: Models Ending in 60, 65, 80, 60N or 80N: 180 in.lb. (20 Nm) Enerdrive Response Time: 60 to 85 sec Closure Through 90°, 0-180 in.lb. (0-20 Nm)

Auxiliary Switches: Models Ending in 20, 80, 20N, or 80N: 2 Mechanical Switches, Fixed at 10° & 80°

Auxiliary Switch Rating: 5 Amp Resistive, 250Vac

Electronic Enclosure: Flammability rating UL94-5V

Option W: IP65 equivalent to Nema type 4 enclosure with special protection against chemicals



T Series (low voltage) Quick Select

Spec Sheet Available on Our Website

Actuator Models		Control Signals					Time in	Actuator Features						
	Nom. Supply	Consumption		Digital		Multi Signal			sec Thru	Feed	Auto	Zero &	Fail Safe	2 Mech. Aux.
		Start Up	Full Load	2 POS	3 PT FLT	2-10 Vdc	4-20 mA	PWM	90º Arc	Back	Stroke	Span	(Enerdrive)	Switches
					for	low v	oltag	e appli	ications					
ТТ000	24Vac 30Vdc	8VA	8VA	*	*				60 to 85					
TT005	24Vac 30Vdc	8VA	8VA	*	*				60 to 85	*				
TT020	24Vac 30Vdc	8VA	8VA	*	*				60 to 85					*
TT060	24Vac 30Vdc	24VA	8VA	*	*				60 to 85				•	
TT065	24Vac 30Vdc	24VA	8VA	*	*				60 to 85	*			•	
TT080	24Vac 3Vdc	24VA	8VA	*	*				60 to 85				•	*
ТМ000	24Vac 30Vdc	8VA	8VA	*	*	•	•	*	60 to 85	*	*	+		
TM020	24Vac 30Vdc	8VA	8VA	*	*	•	•	*	60 to 85	*	*	*		*
TM060	24Vac 30Vdc	30VA	8VA	*	*	*	•	*	60 to 85	*	*	*	•	
ТМ080	24Vac 30Vdc	30VA	8VA	*	*	*	*	*	60 to 85	*	*	*	•	*
TM000N	24Vac 30Vdc	15VA	15VA	*	*	*	*	*	40 to 50	*	*	+		
TM020N	24Vac 30Vdc	15VA	15VA	*	+	*	*	*	40 to 50	*	•	•		*
TM060N	24Vac 30Vdc	40VA	15VA	*	•	*	*	*	40 to 50	*	•	*	*	
TM080N	24Vac 30Vdc	40VA	15VA	*	*	*	*	*	40 to 50	*	•	+	•	*

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







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GENERAL SPECIFICATIONS

24Vac, 30Vdc,120Vac, and/or 240Vac Depending upon the Model Power Supply:

Power Consumption: 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

Wire Size: 18 AWG (0.8 mm²) Minimum

Electrical Connections: Two 7/8 in. (22.2 mm) Knock Outs, Screw Terminals

Control Signals: 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 0.1to 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

SWITCH COMMON: NPN Transistor, SCR, Triac or Dry Contact 75mA Max. Switching Current

DIGITAL: 3 Wire 2 Position or 4 Wire 3 Point Floating

Torque: 180 in.lb. (20 Nm) at Rated Voltage

Direction & Time of Rotation: Reversible, 40 to 50 sec or 60 to 85 sec, 0-180 in.lb. (0-20 Nm) Depending upon the Model

Ambient Temperature: 0°F to +122°F (-18°C to +50°C)

Feedback Potentiometer: In Digital (TTXX5): Voltage (0-12Vdc max)

In Multi Signal (TM): 4-20mA Output (May be wired for a 2-10Vdc signal)

Fail Safe (Enerdrive) Rating: Models Ending in 60, 65, 80 or 60N: 180 in.lb. (20 Nm) 60 to 85 sec Closure Through 90°, 0-180 in.lb. (0-20 Nm) Enerdrive Response Time:

Auxiliary Switches: Models Ending in 20, 80 or 20N: 2 Mechanical Switches, Fixed at 10° & 80°

Auxiliary Switch Rating: 5 Amp Resistive, 250Vac

Electronic Enclosure: Flammability rating UL94-5V

Option W: IP65 equivalent to Nema type 4 enclosure with special protection against chemicals



T Series (line voltage) Quick Select

Spec Sheet Available on Our Website

Actuator Models		Control Signals					Time in	Actuator Features						
	Nom. Supply	Consumption		Digital		Multi Signal			sec Thru	Feed	Auto	Zero	Fail Safe	2 Mech.
		Start Up	Full Load	2 POS	3 PT FLT	2-10 Vdc	4-20 mA	PWM	90º Arc	Back	Stroke	& Span	(Enerdrive)	Aux. Switches
					for	line vo	oltage	applic	ations					
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				*	*
ТМ300	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	*	•	•	*	
ТМ380	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	•	*	•	*	*

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