

M SERIES

400, 675, 1000 & 1500 IN-LBS
NEMA 4, 4X, 7 AND/OR 9

The M Series NEMA 7 electric actuator was designed for applications in hazardous locations.



SPECIFICATIONS:

TORQUE	MS	400 In-Lb (45.2 Nm)		
	MR	675 In-Lb (76.3 Nm)		
	ML	1000 In-Lb (113Nm)		
	MH	1500 In-Lb (169.5Nm)		
CYCLE TIME	MS	10 Sec./90	12Vdc, 24Vdc, 24Vac, 115Vac & 230Vac	
	MS	20 Sec./90	115Vac extended duty motor (75%) & 24Vdc (alternative)	
	MR & ML	15 Sec./90	12Vdc, 24Vdc, 24Vac, 115Vac & 230Vac	
	MR & ML	30 Sec./90	115Vac extended duty motor (75%) & 24Vdc (alternative)	
	MH	30 Sec./90	12Vdc, 24Vdc, 24Vac, 115Vac & 230Vac	
	MH	60 Sec./90	115Vac extended duty motor (75%) & 24Vdc (alternative)	
DUTY CYCLE	25% standard on 115Vac and 230Vac			
	75% optional on 115Vac extended duty motor			
	100% standard on 12Vdc, 24Vdc and 24Vac			
MOTOR	Permanent split capacitor (for AC) with thermal overload protection			
CURRENT RATINGS	FL= Full Load, LR= Lock Rotor			

	115VAC (Std.)		24VAC & 24VDC		12VDC		208VAC/1PH/60HZ		230VAC/1PH/60HZ	
	FL	LR	FL	LR	FL	LR	FL	LR	FL	LR
MS & MR	0.38	0.75	0.90	3.20	1.70	4.20	0.21	0.42	0.18	0.38
ML & MH	0.38	0.75	1.10	3.20	2.20	4.20	0.21	0.42	0.18	0.38

The motor's LR amps must be taken into account when sizing the input power supply and fuses. Slow blow fuses are recommended

CERTIFICATION	CSA	Master Contract 178618
LOCATION	Hazardous - Class I, Division 1 & 2, Groups C & D; Class II Division 1 & 2, Groups E, F & G	
CANADIAN	CSA C322802 – Valves – Actuators – For Hazardous Locations CAN/CSA – C22.2 No. 139-1982; CAN/CSA – C22.2 No. 25-1966; CAN/CSA- C22.2 No. 30-M1986	
UNITED STATES	Class C322882 - Valves – Actuators – For Hazardous Locations - Certified to US Standards. ANSI/UL 429, Seventh Ed. – 2013; ANSI/UL 1203 Third Ed. - 2000	
CERTIFIED VOLTAGES	12Vdc, 24Vdc & 115Vac	
CERTIFIED TEMP.	-4F (-20C) to 104F (40C)	
CERTIFIED OPTIONS	Enclosure Type 4, 4X, 7 or 9, One, Two or Three Auxiliary Switches, Declutching Manual Override with Hand Wheel, Motor Brake for 12Vdc, 24Vdc & 115Vac, all Feedback Potentiometer options, Modulating Controls LRC, VP, VQ, VP0 & VQ0, Visual Position Indication D, DI, D3L, D3T, TX, TX0 & TQ, Additional Conduit Entry, Heater and Heater with Thermostat (For complete list of options, see option grid in catalog page 40)	
COATING	Thermally bonded polyester powder	
POSITION INDICATOR	Visual	Dome Indicator
	Electric	Feedback from limit switches, same as operating voltage



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SWITCHES	Snap action	SPDT, 15A @ 250Vac
LUBRICATION	Grease	Permanent, little or no maintenance required
WEIGHT	MS, MR & ML – 21 lb (9.52 kg)	MH – 22 lb (10 kg)
MOUNTING	Universal	
MOUNTING PAD	ISO 5211 F07 & F10 with 17mm star drive	
TEMPERATURE	-40F (-40C) to 150F (65.6C), heater & thermostat required 0F and below Optional double heater for application down to -76F (-60C)	
OVERRIDE	Manual, Declutching Hand Wheel	

TECHNICAL DRAWING:

