


M Series

400, 675, 1000 & 1500 IN-LBS, NEMA4

The M series rotary electric actuator was designed for small and medium size valve and damper applications. This industrial grade reversing actuator has been manufactured for over thirty years and has achieved an impeccable reputation for reliability in applications requiring repeated superior performance year after year.

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
CLASSIFICATION	3221 02 – Valves – Actuators; 3221 82 – Valves – Actuators Certified to US Standards	
CANADIAN	C22.2 No. 139-1982 (Reaffirmed 2000) – Electrically Operated Valves	
UNITED STATES	C22.2 No. 94-M91 (Reaffirmed 2001) – Special Purpose Enclosures	
	UL 429, 5th Edition (8 Oct 2004) – Electrically Operated Valves	
	UL 50, 11th Edition (12 Sep 2003) – Enclosures for Electrical Equipment	
CERTIFIED VOLTAGES	115Vac	
CERTIFIED ENCLOSURE	Type 4	
CERTIFIED TEMP.	-4F (-20C) to 104F (40C)	
CERTIFIED OPTIONS	One or Two Auxiliary Switches, Dec clutching Manual Override with Hand Wheel, Friction Brake, Power On Brake and Power Off Brake for 115Vac (For complete list of options, see option grid in catalog page 40)	

COATING	Thermally bonded polyester powder
---------	-----------------------------------



M Series

400, 675, 1000 & 1500 IN-LBS, NEMA4

POSITION INDICATOR	Visual Electric	Dome Indicator Feedback from limit switches, same as operating voltage
SWITCHES	Snap action	SPDT, 15A @ 250Vac
LUBRICATION	Grease	Permanent, little or no maintenance required
WEIGHT	MS, MR & ML – 16 lb (7.26 kg)	MH – 22 lb (10 kg)
MOUNTING	Universal	
MOUNTING PAD	ISO 5211 F05 & F07 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:

