M SERIES

400, 675, 1000 & 1500 IN-LBS, NEMA 4

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 C22.2 No. 94-M91 (Reaffirmed 2001) – Special Purpose Enclosures

UNITED STATES 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, Declutching 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



ELECTRIC ACTUATORS AND CONTROLS

400, 675, 1000 & 1500 IN-LBS, NEMA 4

POSITION INDICATOR Visual Dome Indicator

Electric Feedback from limit switches, same as operating voltage

SPDT, 15A @ 250Vac **SWITCHES** Snap action

LUBRICATION Grease Permanent, little or no maintenance required

WEIGHT MS, MR & ML - 16 lb (7.26 kg) MH - 22 lb (10 kg)

MOUNTING Universal

0.50 DEEP

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

