

M SERIES

400, 675, 1000 & 1500 IN/LBS,
NEMA 7

ICI's M series rotary electric actuator was designed for quarter turn valve and damper applications requiring from 400 up to 1,500 in-lbs torque. This industrial grade reversing actuator has been manufactured for over twenty-five years and has achieved an impeccable reputation for reliability in applications requiring repeated superior performance year after year. This machine has a hardened steel spur gear drive train guaranteeing high efficiency, quiet operation and long trouble free life.

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	23 Sec./90	115Vac extended duty motor (75%)
	MR & ML	15 Sec./90	12Vdc, 24Vdc, 24Vac, 115Vac & 230Vac
	MR & ML	40 Sec./90	115Vac extended duty motor (75%)
	MH	30 Sec./90	12Vdc, 24Vdc, 24Vac, 115Vac & 230Vac
	MH	75 Sec./90	115Vac extended duty motor (75%)
DUTY CYCLE	25% standard on 115Vac and 230Vac 75% standard on 12Vdc, 24Vdc and 24Vac, 115Vac extended duty motor, optional		
MOTOR	Permanent split capacitor (for AC) with thermal overload protection		



CURRENT RATINGS FL= Full Load, LR= Lock Rotor

	115 Vac (Std.)		115 Vac Extended Duty		24 Vac		24 Vdc		12 Vdc		208 Vac/1Ph/60Hz		230 Vac/1Ph/60Hz	
	FL	LR	FL	LR	FL	LR	FL	LR	FL	LR	FL	LR	FL	LR
MS & MR	0.38	0.75	0.38	0.75	0.90	3.20	0.90	3.20	1.70	4.20	0.21	0.42	0.18	0.38
ML & MH	0.38	0.75	0.38	0.75	1.10	3.20	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	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	
APPROVED VOLTAGES	12Vdc, 24Vdc & 115Vac	
APPROVED ENCLOSURES	Enclosure Type 4, 7 & 9	
APPROVED TEMP.	-4F (-20C) to 104F (40C)	
APPROVED OPTIONS	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 33)	
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	Pound	MS, MR & ML – 21 (lb) MH – 22 (lb)
	Kilogram	MS, MR & ML – 9.52 (kg) MH – 10 (kg)
MOUNTING	Universal	
MOUNTING PAD	ISO 5211 F07 with 17mm star drive (And F10 bolt circle on MH only)	
TEMPERATURE	-40F (-40C) to 150F (65.6C), heater & thermostat required 0F and below Optional double heater for application up to -76F (-60C)	
OVERRIDE	Manual, Declutching Hand Wheel	

