



**MULTITURN MODULATING
ACTUATORS.**

MERLA MULTITURN MODULATING ACTUATORS.

MERLA-M electric multi-turn actuators are specially designed for operating different types of valves such as globe valves, control valves and choke valves offering a wide range of output torques and control options to meet your specific requirements.

Merla-M actuators offer high reliability and performance for valve automation systems.

FEATURES

- Speed: 34 35 45 67 70 90 (rpm)
- Noise Level: Less than 75 dB within 1 m
- Electrical interface: 2* NPT 3/4, 1* NPT1 1/2
- Ingress Protection: IP67, Optional: IP68
- Applicable Voltage: 3 phase: AC 380 V ($\pm 10\%$) / 50/60 Hz ($\pm 5\%$)
- Optional: 1 phase AC 220 V
- On/off type signal:
- Input: AC 110/220 Input
- Signal Feedback: Integrated fault contacts, Close the valve contact, Open the valve contact.
- Motor overheats protection
- Moisture-resistant heaters (anti-moisture device)
- Instantaneous reversal protection
- Limit and torque sensing
- Local control inching / automatic holding selection
- Two-wire control protection
- Remote control settings
- Mounting base according to ISO5210.



Model	Output torque	Speed	Maxshaft diameter	Power	Rated current (A) 50HZ	Flange	Weight
	N·m	RPM	mm	W	three phases		
					380V	ISO5210	Kg
MERLA-M-007	70	45	Φ28	400	2.42	F10	32
	70	90		400	2.95		
MERLA-M-010	120	35	Φ28	600	2.25	F10	38
	120	70		600	3.18		
	120	105		800	5.15		
MERLA-M-020	300	34	Φ40	1100	4.5	F14	68
	300	67		1100	6.85		
MERLA-M-050	450	34	Φ40	1100	9.58	F14	70
	450	67		1500	14.8		
MERLA-M-060	600	34	Φ55	3000	10.89	F16	103
	600	67		4000	16.5		
MERLA-M-080	800	34	Φ55	3000	12.43	F16	103
	800	67		4000	23.5		
MERLA	1000	34	Φ55	4000	30.2	F16	103

Standard Specification

Shell	Enclosure: IP67, NEMA4, Exd II CT5
Power	Standard: 380VAC/3ph Optional: 110/220AC/1ph,440V AC/3ph,50/60Hz, + 10%
Motor	Asynchronous motor
Limit switch	1xOpen/ Close, SPDT,250VAC 10A (on/off model)
Auxiliary limit switch	1xOpen/ Close, SPDT,250VAC 10A (on/off model)
Torque switch	1xOpen/Close, SPDT,250V AC 10A
Operating temperature	Internal-placed thermal protection, Open 120°C +5°C/ Close 97°C + 5°C
Manual operation	Declutching mechanism, with handwheel operation
Self-locking device	Self-locking by worm and worm gear
Space heater	30W (110V/220VAC) Condensation preventing (according to conditions, can be adjusted)
Conduit entry	Double seal 3× (PT3/4", PT1", PT1-1/2"optional)
Ambient temperature	-25° ~ +70° (-30, -40°, -60° optional)
Lubrication	Special oil for 00 actuators
Material	Ductile iron, high-strength aluminum alloys, steel, aluminum bronze, polycarbonate
Ambient humidity	Max 90 % RH Non-Condensing
Anti - vibration	X Y Z 10g,0.2~34 Hz,30 minutes
External coating	Dry powder, epoxy polyester, high anti-corrosion
Overload protection	Torque peak overload protection
Display screen	LED display (smart regulation type)
Setting mode	Non-intrusive setting (without opening the cover set type)
Electrically	Integrated control unit with a non-invasive rotary switch

Options

- Explosion-proof actuator (Exd II CT4)
- Water-proof actuator (IP68,10M,250HR)
- High temperature resistance actuator (-10° ~ +100°)
- Low temperature resistance actuator (-60° ~ +30°)
- Special output drive.





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