



Three Phase Electric Multi Turn Actuator

Summary

AOX is a professional manufacturer from China that focuses on the manufacturing of electric actuators for more than 20 years. After years of research, AOX launched the "AOX-M" series three phase electric multi turn actuator. "AOX-M" series electric actuators are used to control a variety of valves and other similar products, such as butterfly valves, ball valves, gate valves, globe valves, control valves and other similar applications.

Product Introduction of the Three phase electric multi turn actuator

The control circuit of "AOX-M" series three phase electric multi turn actuator conforms to the single-phase or three-phase power supply standard, and the circuit layout is compact and reasonable. The actuator adopts sunflower terminal with 29 connection ports. When double sealing connection is adopted, the terminal block is installed between the actuator cavity and the connector. It can protect the equipment from dust or moisture even when the outer cover is removed or the cable jacket is not completely sealed. The terminal blocks can effectively meet the requirements of various additional functions (can be processed separately according to customer requirements).

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Product Parameter (Specification)of the Three phase electric multi turn actuator

Model	Output torque	Speed	Max shaft diameter	Power	Rated current (A)	Flange	Weight
					50HZ		
	N·m	RPM	mm	W	380V	ISO5210	Kg
AOX-M-007	70	45	Φ28	400	2.42	F10	32
	70	90		400	2.95		

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AOX-M-010	120	35	Φ28	600	2.25	F10	38
	120	70		600	3.18		
	120	105		800	5.15		
AOX-M-020	300	34	Φ40	1100	4.50	F14	68
	300	67		1100	6.85		
AOX-M-050	450	34	Φ40	1100	9.58	F14	70
	450	67		1500	14.80		
AOX-M-060	600	34	Φ55	3000	10.89	F16	103
	600	67		4000	16.50		
AOX-M-080	800	34	Φ55	3000	12.43	F16	103
	800	67		4000	23.50		
AOX-M-100	1000	34	Φ55	4000	30.20	F16	103
Torque Range:		40 - 1000 Nm Direct Output					
Speed:		34 35 45 67 70 90 (rpm)					
Anti-vibration Level:		JB/T8219					
Noise Level:		Less than 75 dB within 1 m					
Modulating Type:		S4 50 %, up to 600 triggers per hour					
Applicable Voltage:		3 phase: AC 380 V (±10 %) /50/60 Hz (±5 %);optional: 1 phase AC 220 V					
Signal Feedback:		Integrated fault contacts,Close the valve contact,Open the valve contact					
Output signal:		4 - 20 mA; 0 - 10 V; 2 - 10 V					
Dead Zone:		≤2%					
Time Lag:		N/A					
Shell:		Enclosure:IP67 (IP68 optional) ,NEMA4 and 6					
Power:		Standard: 380V AC/3ph Optional: 110/220V AC/1ph,440V AC/3ph, 50/60Hz, ±10%					
Self-locking device:		Self-locking by worm and worm gear					
Space heater:		30W (110/220V AC)					

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	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)
Setting mode:	Non-intrusive setting (without opening the cover set type)

Standard Specification of the Three phase electric multi turn actuator

Shell:	Enclosure:IP67 (IP68 optional) ,NEMA4 and 6	
Power:	Standard: 380V AC/3ph Optional: 110/220V AC/1ph,440V AC/3ph, 50/60Hz, ±10%	
Motor:	Asynchronous motor	
Limit switch:	1×Open/ Close, SPDT,250V AC 10A (on/off model)	
Auxiliary limit switch:	1×Open/ Close, SPDT,250V AC 10A (on/off model)	
Torque switch:	1×Open/ Close, SPDT,250V AC 10A	
Operating temperature:	Internal-placed thermal protection, Open 120℃ ±5℃ /Close 97℃ ±5℃	
Manual operation:	Declutching mechanism,with handwheel operation	
Self-locking device:	Self-locking by worm and worm gear	
Space heater:	30W (110/220V AC) 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

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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

Production details of the Three phase electric multi turn actuator

Double sealing structure terminal box: Terminal box,which is double sealing and separated enclosure protection,assure the sealing integrity of the electronic component if open the box cover to make the on-site wiring.



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