



## High Speed Electric Multi Turn Actuator

### Summary

"AOX-M" series high speed electric multi turn actuator is a product developed by AOX in more than 20 years of manufacturing history and has been upgraded many times. "AOX-M" series electric actuators are used to control a variety of valves and other similar products, such as stop valves, gate valves, control valves, etc., which are widely used in petroleum, chemical, water treatment and other industries.

## Product Introduction of the high speed electric multi turn actuator

"AOX-M" series high speed electric multi turn actuator mainly consists of the following parts: 1. Opening detection and feedback; 2. Shell: including shell and base; 3. Torque switch and limit switch; 4. Proportional control part: separate from the mechanical part for debugging; 5. Transmission mechanism: worm gear and clutch; 6. Driving part: the high-performance fully enclosed squirrel cage motor is used as the power source.

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## **Product Parameter ( Specification )of the high speed electric multi turn actuator**

|                        |  |
|------------------------|--|
| Torque Range:          | 40 - 1000 Nm Direct Output                                     |
| Corrosion level:       | Epoxy powder coating NEMA 4X corrosion protection is optional. |
| Explosion-proof level: | Exd IIC T5 design  |

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| Connection size:     | ISO5210(Thrust torque type)and JB2920(Three claw type)                             |       |                    |       |                        |        |        |
|----------------------|--|-------|--------------------|-------|------------------------|--------|--------|
| Working System:      | On-off Type: S2 15 min, no more than 600 times per hour start.                     |       |                    |       |                        |        |        |
| Modulating Type:     | S4 50 %, up to 600 triggers per hour   |       |                    |       |                        |        |        |
| Applicable Voltage:  | 3 phase: AC 380 V (±10 %) /50/60 Hz (±5 %)   |       |                    |       |                        |        |        |
| Shell:               | Enclosure:IP67 ( IP68 optional ) ,NEMA4 and 6                                      |       |                    |       |                        |        |        |
| Power:               | Standard: 380V AC/3ph<br>Optional: 110/220V AC/1ph,440V AC/3ph, 50/60Hz, ±10%      |       |                    |       |                        |        |        |
| Torque switch:       | 1×Open/ Close, SPDT,250V AC 10A  |       |                    |       |                        |        |        |
| Self-locking device: | Self-locking by worm and worm gear   |       |                    |       |                        |        |        |
| 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 |       |                    |       |                        |        |        |
| Setting mode:        | Non-intrusive setting (without opening the cover set type)                         |       |                    |       |                        |        |        |
| Electrically:        | Integrated control unit with a non-invasive rotary switch                          |       |                    |       |                        |        |        |
| Model                | Output torque  | Speed | Max shaft diameter | Power | Rated current (A) 50HZ | Flange | Weight |
|                      | N·m  | RPM   | mm                 | W     | three phases           |        |        |
| AOX-M-007            | 70   | 45    | Φ28                | 400   | 2.42                   | F10    | 32     |
|                      | 70   | 90    |                    | 400   | 2.95                   |        |        |
| 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    |

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## Standard specification the high speed electric multi turn actuator

|                        |   |
|------------------------|---|
| Shell                  | Enclosure:IP67 (IP68 optional) ,NEMA4 and 6   |
| Power                  | Standard: 380V AC/3ph<br>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°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 (110/220V AC)<br>Condensation preventing (according to conditions, can be adjusted) |
| Conduit entry          | Double seal 3× (PT3/4"、PT1"、PT1-1/2"optional)   |

## Production details of the high speed electric multi turn actuator

Terminal box:In the terminal box with double seal protection design, when the terminal box cover is opened for field wiring, the separately sealed terminal box also ensures the sealing integrity of the electrical parts in the electric device.

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