



## Electric Motor Multi Turn Actuator With Digitalized Control

valves and other similar products, include butterfly valve, ball valve, gate valve, control valve and etc. Electric motor multi turn actuator with digitalized control serve all over the world, including Europe, the Americas, ICAO, Australia, Africa, Asia, the Middle East and Southeast Asian countries. AOX has its own factory. It is widely used in water treatment, heating, petroleum, chemical industry, electronics, light industry, food, medicine, textile, paper making, hydropower, ships, smelting, new energy and other fields. In addition, it has established very friendly relations with many Fortune 500 companies.

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## Electric motor multi turn actuator with digitalized control

### Introduction

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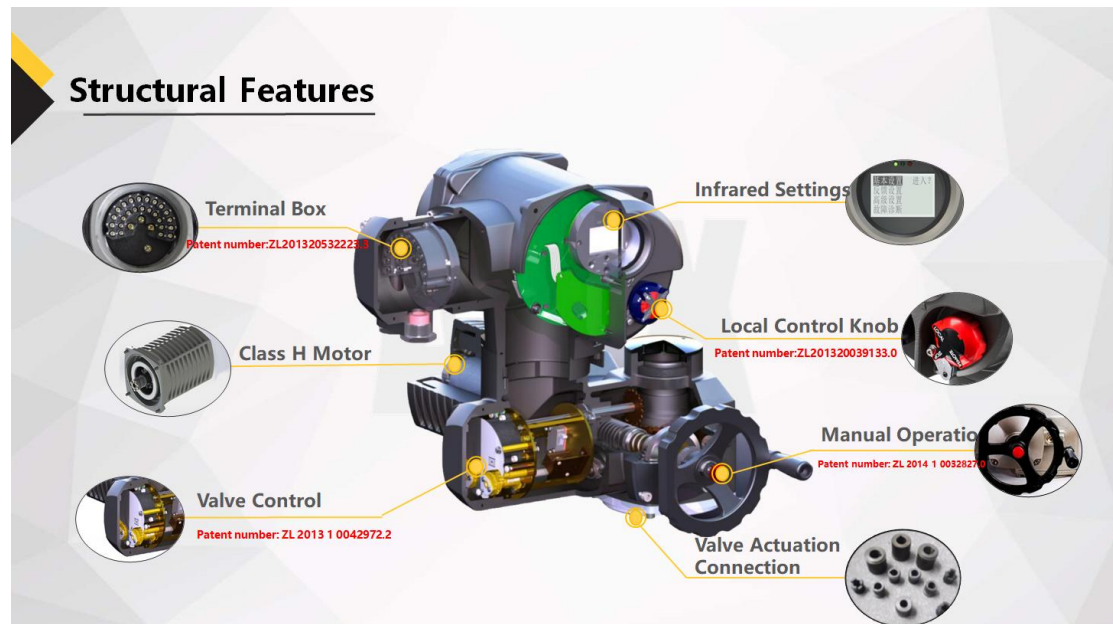
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Electric motor multi turn actuator with digitalized control is specially designed for all multi turn valve applications (linear motion valves) such as globe valve, gate valve, and etc. We provide electric actuators for buildings, plants, steelworks, powerplants, etc. AOX is a **supplier** to many large enterprises. AOX executing agencies are available to more than 30 countries. We are committed to producing high-quality executing electric motor multi turn actuator with digitalized control at lower economic prices for the benefit of our customers. We are committed to providing our distributors and customers with the best service.





## Electric motor multi turn actuator with digitalized control

### Parameter (Specification)

Model	Output torque	Speed	Maxshaft diameter	Power	Rated current (A) 50HZ	Flange	Weight
					three phases		
	N.m	RPM	mm	W	380V	ISO5210	Kg
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

## Electric motor multi turn actuator with digitalized control

### Feature And Application

Ambient Temperature: -30°C --+70°C Optional: -40°C- 60°C

Anti-vibration Level: JB/T8219

Noise Level: Less than 75 dB within 1 m

Ingress Protection: IP67 , Optional:IP68

Connection size:ISO5210(Thrust torque type)and JB2920(Three claw type)

Motor Specifications:Class F, with thermal protector up to +135 °C (+275 °F)

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 %)

Three-phase power phase sequence protection

Modular design

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- Mechanical interlock protection
- Contact selection
- Conditional control protection
- Remote control settings
- Self-diagnosis fault alarm

### Additional Mechanical Parts

Through the combination of AOX-M series multi-turn electric actuator and the following mechanical components, other types of valves can be controlled.

	Through the configuration of linear thrust unit, can constitute a direct stroke actuator, suitable for regulating valves. > Thrust: 10~160 KN > Stroke: 16~100mm (other stroke can be customized) Speed: 3.4~7.5mm/S (according to the stroke)
	Through configuration part of the rotary gear box, can constitute a large part of the rotary actuator torque, suitable for butterfly valve, ball valve, plug valves, etc. Torque: 0.2~1000 KNm speed: 0.2~43 r/min
	By configuring multi-turn gearbox, can constitute a large output torque rotary actuator, is applicable to gate valves, globe valves, etc. Torque: 0.1~100 KNm Speed: 2~600 s
	By configuring the turn arm type gear box, can turn a arm type actuator, applicable to the throttle, damper valve, butterfly valve, etc. Torque: 0.2~1000 KNm Speed: 0.2~43 r/min



## Electric motor multi turn actuator with digitalized control

### Details

#### 1. Manual operation

- In the commissioning or in an emergency the actuator can be operated by handwheel.
- By operating the red button to disconnected the actuator and motor and start manual operation. Because the self-locking worm gear between the motor and the operating shaft are separated, it's very easy to turn to manual operation even if the actuator is running at maximum torque.
- After starting the motor, automatically breaks away from manual operation, when the motor is operating the hand wheel does not work.

#### 2. Motor of electric motor multi turn actuator with digitalized control

Specially designed high starting torque motor, can frequent open the valve from fully closed position. In addition to the three-phase AC motors, single-phase AC are also suitable for AOX-M series actuators.

#### 3. Precise valve position measurement for

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electric motor multi turn actuator with digitalized control using magnetic induction absolute encoder, eliminating the traditional potentiometer, improved location accuracy and does not require battery can be accurately recorded valve position when the actuator power outage.

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