



EAD-20

ELECTRIC ACTUATOR / ON-OFF

GENERAL FEATURES

Electric actuator is used for controlling 0°~270° rotation of the valves and other similar products, such as butterfly valve, ball valve, damper, flapper valve, cock valve etc. It widely applies to petroleum, chemical, water treatment, shipping, paper making, power plant, heating, light industry and other industries. Driven by 380V/220V/110V AC power or 24V/110V DC power, inputs 4-20mA or 0-10V DC control signal, moves the valve to the right position, and achieves to automatic control, the maximum output torque is 1000N·M

Performance Features

1- Shell: The shell is made of horniness aluminum alloy, with anodic oxidation treatment and polyester powder coating. It is strong corrosion-resistant and enclosure IP67, NEMA 4 and 6, IP68 is optional.

2-Manual Structure: The design of lever is safe, reliable, labor-saving, small. If without power, can be operated lever. If don't manual operation, put the lever in the lever folder, convenient to use.

3-Electric Machinery: Fully enclosed Squirrel-cage electric machinery, small, large torque, and small inertia force, F-class insulation rating, place hot protection switch internal to avoid damaging the electric machinery.

4-Indicator: Installs indicator in the center shaft and adopts convex mirror design, without waterlogging, more convenient to observe.

5-Space heater: It is used for controlling temperature, avoiding internal moisture of electric actuator condensed because of the changing of temperature and weather, keep inner electric device dry.

6-Sealing: Well sealing performance and enclosure IP67, IP68 is optional.

7-Limit switch: Mechanical, electronic double limit. Mechanical limit screw is adjustable, safe and reliable; electronic limit switch is controlled by the cam. Set position accurately and conveniently by simple adjustment, and it is not affected by excessive handle.

8-Self-locking—Accurate worm and worm gear transfer large torque efficiently, high efficiency, low noise (max. 50 dB), long life, with self-locking function, prevent inversion, as stable and reliable transmission parts, no need to refuel.

9-Anti-off bolt: The bolt will attach to the shell and not be off when remove the shell.

10-Installation: The installation size of the bottom meets international standard ISO5211/DIN3337. There are double squares between the bottom and the hole connect to the stem which are convenient to install square stem valve straightly or in 45° rotation angle.

11-Circuit-Controlling circuit meet the single-phase or three-phase power supply standard, circuit layout is reasonable and compact, terminals meet various of additional functional requirements effectively.

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PERFORMANCE PARAMETER

Model	Max output torque N·M	Operating Time 90° (S)	Drive shaft(mm)				Motor (W)	Single phase rated current(A) 220V(A)50 Hz	Weight (Kg)
			Square	Deep	Square	Deep			
AYV-003	30	10	9x9	13,50	φ12.6	26	8	0.15	2,1
			11x11	15,50					
AYV-005	50	30	11x11	15,50	φ12.6	26	10	0.25	3,6
			14x14	18,00					
AYV-008	80	30	11x11	15,50	φ15.78	26	10	0.25	3,6
			14x14	18,00					
AYV-010	100	30	14x14	18,00	φ15.78	28	15	0.35	4,6
			17x17	22,50	φ18.95	28			
AYV-015	150	30	14x14	18,00	φ18.95	28	15	0.37	4,6
			17x17	22,50					
AYV-040	400	30	22x22	26,00	φ28.48	45	60	0.33	13,8
AYV-060	600	30	27x27	32.5	φ31.65	45	90	0.33	14

STANDARD TECHNICAL PARAMETER

Shell	Aluminium Alloy Shell Enclosure: IP68, NEMA4 and 6	
Power	Standard:220VAC single-phase Optional:110VAC single-phase,380V/440V 3 phase,50/60HZ,±10% 24VDC/110VDC/220VDC	
Controlling Power	110/220VAC 1Phase, 50/60 Hz,±10%	
Motor	Squirrel-cage Asynchronous Motor	
Limit Switch	2xOpen/Close. SPDT,250VAC 10A	
Auxiliary Limit Switch	2xOpen/Close. SPDT,250VAC 10A	
Stroke	90°~270°±10° (Please specify in advance if over 90°)	0°~270°
Stall Protection/ Operating Temperature	Internal-placed thermal protection, On 120℃± 5 °C/Off 97 °C± 5 °C	
Indicator	Continuous situation indication	
Manual Operation	Mechanical lever (Handwheel is optional)	
Self-Locking Device	Self-locking by worm and worm gear	
Mechanical Limit	2 external adjustable screws	
Space Heater	7-10W (110/220VAC) Anti-condensation	
Conduit Entries	2 Pieces M18	
Ambient Temperature	-20 °C -- 70 °C	
Lubrication	Grease moly (EP tyle)	
Material	Steel,Aluminium alloy, Aluminium bronze, Polycarbonate	
Ambient Humidity	Max 90% RH	Non-Condensing
Anti-Vibration	XYZ 10g, 0.2~34Hz, 30 minutes	
External Coating	Dry powder, Epoxy polyester	

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