

## AD2 type Electric Actuator Specifications

### FEATURE

AD series with powerful motor and control board offer reliable automatic control of quarter-turn valves.  
These actuators provide maximum versatility in electrical control.  
The use of self-locking worm gear is standard and ensures positive valve position.

### SPECIFICATION

Actuator type (□:Voltage code)	AD2-300-□	AD2-700-□
Voltage	100 / 110 V AC $\pm 10\%$ 50/60 Hz (Code: 1) 200 / 220 V AC $\pm 10\%$ 50/60 Hz (Code: 2) 24 V DC (Code: 0) 115 / 120 V AC $\pm 10\%$ 50/60 Hz (Code: 7) 230 / 240 V AC $\pm 10\%$ 50/60 Hz (Code: 8)	
Rated torque [N·m]	30	70
Operation time [s]	3 to 4	6 to 10
Power consumption (Max) [VA]	AC power 100      DC power 80	
Motor	DC motor	
Overload protection	Current limiter	
Method of operation	a-contactinput type, with built-in relay	
Operation	SW is OFF → SHUT (R3 SW is ON) SW is ON → OPEN (R4 SW is ON) Over torque → R5 SW is ON	
Input signal current	10 mA 100 V AC / 6.5 mA 200 V AC / 38 mA 24 V DC (Leakage current in SW: less than 1 mA) *O terminal input: Photo coupler	
Output signal rating	Resistance load 0.5 A 125 V AC / 1 A 24 V DC      Micro load 1 mA 5 V DC	
Alarm signal	Output when the motor protection circuit operates by the overload. (it returns by power supply OFF or reverse operating signal)	
Duty cycle	20 % 15 min. (When ambient temperature is over 50 °C, 10 % 15 min.)	
Ambient temperature	-20 to 55 °C	
Space heater	0.8 W	
Manual operation	Manual over-ride with clutch (Direct operation)	
Enclosure	Equivalent to IP65 (IEC 60529)	
Housing material	Aluminum alloy diecast (acrylic resin baking finish)	
Wire connection	Terminal Block: M3, Ground terminal: M3	
Conduct port	2-G1/2 Attachments: Cable gland (for $\Phi 6$ to 12 mm cable), plug.	

3 way valve: SHUT / Position①, OPEN / Position②

### WIRING

