

Electric actuator

Bernard EZ, electrical
AT 3901

AT 3901 (250-600 Nm)

Internet_Variants

Range of application

Weather-proof actuator for On/Off maneuvering or positioning of ball valves, butterfly or where a 90° rotation is needed. Torque 250 or 600 Nm.

UEC.11 Actuator for valve, electric, two-position without spring return

Actuator Bernard Electrical AT 3900 for 90° maneuvering of ball valves, butterfly or where a 90° rotation is needed.



Quality assurance

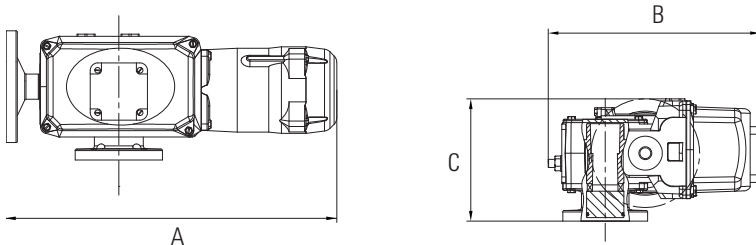
CE-Marking

EC Directives 2004/108/EC, 2006/95/EC and complies with EN 61000-6-4, EN 61000-6-2, EN 60034-1 and EN 60529.

IP 67 rated .

Material specification

	Detail	Material	Surface treatment
1	Body	Aluminum	Epoxy painted RAL 2010
2	Cover	Aluminum	Epoxy painted RAL 2010
3	Drive shaft	Massive steel	Untreated



Dimension and weight

Actuator/ Fig. no	Standard drive shaft	A	B	C	Weight
25	22	518	313	180	18
60	27	587	313	180	20

Dimension in mm, weight in kg *Is available in requested size, parallel or a 45° rotation

Function and design

Standard version

Reversible actuator in two sizes, for rotating 0-90°, adjustable through a combination of cams, mechanical end stop and/or torque switches.

The actuator is a compact combination of an electric motor with thermal overload protection and self-locking, permanently lubricated worm gear. Standard with manual emergency operation.

The actuator mounting dimensions in relation to the fittings are according to ISO 5211.

Design time 20 000 cycles (On-Off) / 300 000 starts for modulating (positioning).

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Tested according to EN 15714-2 class A and B

Standard performance

Standard performance	
Motor duty	S4-25% ED. 360 starter/h max
Enclosures	IP67
Temperature	-20°C to +60°C
Anti condensation heater	Yes
Thermal overload protection	Thermostats
Permanently lubricated gear	Gear
Cable entries	2 st.M20x1,5
End switches	250V, max 16A
Torque switches	Yes
Terminal block	8 connections.

Technical data

Actuator 3901 on/off	Torque Nm		Operating time (50 Hz) s	ISO-connection	230 V AC 50 Hz Ampere			400 V AC 50 Hz Ampere			24 VDC
	Start	Stop			Start	Stop	kW	Start	Stop	kW	
25	250	250	30	F07/10	0,9	0,6	0,03	0,5	0,3	0,03	Yes
60	600	600	30	F07/10	1,7	1,2	0,06	0,8	0,3	0,06	-

Technical data

Actuator 3901 for positioning	Torque Nm		Operating time (50 Hz) s	ISO-Connection	230 V AC 50 Hz Ampere			400 V AC 50 Hz Ampere			24VDC
	Start	Stop			Start	Stop	kW	Start	Stop	kW	
25	250	12 5	30	F07/10	0,9	0,6	0,03	0,5	0,3	0,03	Yes
60	600	25 0	30	F07/10	1,7	1,2	0,06	0,8	0,3	0,06	No

Dimensioning

Actuator size	25	60
Ball valve		
AT 3502, 3522, 3542, 3547	DN 80-125	125-200
AT 3507, 3527	DN 65-100	125-150
AT 3582, 3585	DN 125	150-200
AT 3590	DN 100	125-350
Butterfly valve		
AT 2310-2319	DN 200	250-300

Accessories and options

On/off is available in two different variants

1. The basic version with electromechanical circuit breaker. A feedback signal 4-20mA is possible with accessories POT and TAM.
2. With LCD display and push buttons, this includes control with either 4-20 mA or 0-10 V.

For regulatory

Precision is better than 2%, adjusting the dead band with potentiometer.

Rätten till ändringar utan förregående meddelande förbehålls.
 Armatec ansvarar inte för eventuella tryckfel eller misstänksfel.
 Dokumentet får kopieras endast i sin helhet.

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Configurable input, 4-20 mA, 0-20 mA or 0-10 V.

Output signal is same as input.

3 LED lights; Green (open), red (closed), yellow (torque switch or overheating enabled).

Mounting kit and stem extension.

Installation

During all work with the actuator the power **MUST** be disconnected.

- The actuator must be connected as per the wiring diagram.
- Each actuator must be powered by an individual switch or relay contact, minimum 16A, to prevent cross-feed between the actuators.
- At outdoor installation, the actuator should be protected by a roof or cap.
- Installation with the motor downwards should be avoided.
- Turn the valve with the control unit's hand wheel to centre position. See indication on top of the device.
- Always connect the heater.
- Check that the actuator turns the valve in the desired direction.
- The correct limit switch (open or closed) shall break the motor current.
- Cable entries must comply at least to the lowest protection class of devices.

See the separate sheet for start-up, storage and maintenance.

Marking

Article number, manufacturer, serial number, voltage and current.

Wiring diagram is placed by the motor at delivery.

How to order

Example: 3901-25-8B3A					
AT3901	-25*	8**	B***	3****	A*****
Fig. no.	Size	Operation time	Connection	Voltage	Options
Example: 3901-25-8B3C (Positioning with 4-20 mA or 0-10V Control signal)					
* 25 eller 60 depending on needed torque					
** 8=30 s					
*** B=F07/10					
**** 0=24 VDC, 3=230 VAC, 4=400 VAC					
***** A=On/Off, B= On/off Logic, C=Regulating D=, E=1000 ohm POT, I=TAM					