

High Torque Actuator Data Sheet

Technical data Multi-turn actuators for OPEN - CLOSE duty with 3-phase AC motors

SA 25.1 – SA 40.1

Type	Output speed rpm		Torque range ¹⁾ For S2-15 min		Running torque ²⁾ for type of duty	Valve attachment		Valve stem diameter	Handwheel											
	50 Hz	60 Hz	min. Nm	max Nm	max. Nm	Standard EN ISO 5210	Option DIN 3210	for a rising valve stem ³⁾ max. mm	Ø mm	Reduction ratio	approx. kg ⁵⁾									
SA 25.1	4	4.8	630	2,000	700	F 25	G4	95	400	45:1	150									
	5.6	6.7								32:1										
	8	9.6								45:1										
	11	13								32:1										
	16	19								45:1										
	22	26								32:1										
	32	38								45:1										
	45	54								32:1										
	63	75								45:1		160								
	90	108								32:1										
SA 30.1	4	4.8	1,250	4,000	1,400	F 30	G5	115	500	45:1	190									
	5.6	6.7								32:1										
	8	9.6								45:1										
	11	13								32:1										
	16	19								45:1										
	22	26								32:1										
	32	38								45:1										
	45	54								32:1	260									
	63	75								45:1										
	90	108								32:1										
SA 35.1	4	4.8	2,500	8,000	2,800	F 35	G 6	155	400	180:1		410								
	5.6	6.7								125:1										
	8	9.6								180:1										
	11	13								125:1										
	16	19								180:1										
	22	26								125:1										
	32 ⁴⁾	38 ⁴⁾								90:1	425									
	45 ⁴⁾	54 ⁴⁾								64:1										
	SA 40.1	4								4.8		5,000	16,000	5,600	F 40	G 7	175	500	180:1	510
		5.6								6.7									125:1	
8		9.6	180:1																	
11		13	125:1																	
16		19	180:1																	
22		26	125:1																	
32 ⁴⁾		38 ⁴⁾	90:1																	
		14,000																		

General Information

Multi-turn actuators Auma Norm require electric controls. Auma offers the actuator epac controls.

Type of duty ⁶⁾	Standard: Short-time duty S2 – 15 min
Motors	3-ph AC asynchronous motor
Insulation Class	Standard: F, Tropicalized Option: H, Tropicalized
Motor Protection	Standard: Thermoswitches (NC)
Self locking	Yes, for out speeds 4 to 90 rpm and from size SA 35.1 for output speeds from 4 to 22 rpm

1) Tripping torque adjustable for both directions.

2) Permissible average torque for the whole travel.

3) For output drives type A and B1.

4) Non Self locking.

5) Weight for multi-turn actuator Auma Norm with 3-phase AC motor, standard electrical connection, output drive type B1 and handwheel.

6) For nominal voltage and 20 °C ambient temperature at an average load with running torque.

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Limit switching	Counter gear mechanism for end positions CLOSED and OPEN For 1 to 500 turns per stroke (optional for 1 to 5,000 turns per stroke) Standard: Single switch (1 NC and 1 NO) for each end position, not galvanically isolated Options: Tandem switch (2 NC and 2 NO) for each end position, switches galvanically isolated Triple switch (3 NC and 3 NO) for each end position, switches galvanically isolated Intermediate position switch (DUO limit switching), available for any intermediate position.	
Torque switching	Torque switching for direction OPEN and CLOSE, infinitely adjustable Standard: Single switch (1 NC and 1 NO) for each direction, not galvanically isolated Options: Tandem switch (2 NC and 2 NO) for each direction, switches galvanically isolated	
Position feedback signal, analogue (options)	Potentiometer or 0/4 – 20 mA (RWG / IWG)	
Mech. position indicator (option)	Continuous indication, adjustable indicator disc with symbols OPEN and CLOSED	
Running indication	Blinker transmitter	
Heater in switch compartment	Space heater, 10 / 20 W, 110 – 240 V AC	
Manual operation	Manual drive for setting and emergency operation, handwheel does not rotate during electric operation. Option: Handwheel lockable	
Electrical connection	Control connections on Auma plug & socket connector Motor connection on terminals	
Threads for cable glands	Standard: Metric threads Options: Other threads on request	
Terminal plan	Will be provided based on the requirement.	
Output drive types	A, B1, B2, B3, B4 according to EN ISO 5210 (Refer page 58) A, B, D, E according to DIN 3210 C according to DIN 3338 Special output drives on request.	
Service Conditions		
Enclosure protection	Standard: IP 67 Options: IP 68	
Color	Standard: DA Grey Option: Other colors on request	
Ambient temperature	Standard: -20 to +80 °C	
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