

Technical data Part-turn actuators for open-close duty

General information

Part-turn actuators of the SQV .2 type range with variable operating times. AUMA actuator controls of ACV .2 type are required to change the operating time.

Туре	Operating time for 90°	Torque range ¹⁾		Run torque ²⁾	Number of starts
	[s]	Min. [Nm]	Max. ³⁾ [Nm]	Max. [Nm]	Starts Max. [1/h]
SQV 05.2	4 – 28 12 – 120	50	150	52	60
SQV 07.2	4 – 28 12 – 120	100	300	105	60
SQV 10.2	12 – 120	200	600	210	60
SQV 12.2	24 – 240	400	1,200	420	60
SQV 14.2	40 – 360	800	2,400	840	60

- 1) The tripping torque is adjustable for directions OPEN and CLOSE within the indicated torque range
- 2) 3) Permissible average torque for a travel of 90°
- Max. torque to approx. 50 % of shortest operating time

Valve attachments and weight								
Type Valve attachment		Valve shaft			Handwheel		Weight	
	Standard EN ISO 5211	Option EN ISO 5211	Cylindrical Max. [mm]	Square Max. [mm]	Two-flat Max. [mm]	Ø [mm]	Turns for 90°	approx. [kg]
SQV 05.2	F05/F07	F10	25.4	22	22	160	11 16	21 ¹⁾ 27 ²⁾
SQV 07.2	F05/F07	F10	25.4	22	22	160	11 16	21 ¹⁾ 27 ²⁾
SQV 10.2	F10	F12	38	30	27	200	11 16	26 ¹⁾ 31 ²⁾
SQV 12.2	F12	F14	50	36	41	200	11 16	35 ¹⁾ 43 ²⁾
SQV 14.2	F14	F16	60	46	46	200	11	44 ¹⁾ 55 ²⁾

- Indicated weight includes SQV part-turn actuator with electrical connection in standard version, unbored coupling and handwheel.
- 2) Indicated weight includes SQV part-turn actuator with electrical connection in standard version, unbored coupling and handwheel, including base and lever.

Features and functions					
Type of duty	Short-time duty S2 - 15 min, classes A and B according to EN 15714-2				
	For 100 % nominal voltage and +40 °C ambient temperature and at load with 35 % of the max. torque.				
Motors	3-phase AC asynchronous motor, type IM B9 according to IEC 60034-7, IC410 cooling procedure according to IEC 60034-6				
Mains voltage, mains frequency					
	3-phase AC Voltages/freq	uencies			
	Volt	220 – 240	380 – 480		
	Hz	50 - 60	50 – 60		
	1–phase AC Voltages/frequencies				
	Volt	110 – 120	220 – 240		
	Hz	50 – 60	50 – 60		
	Permissible variation of mains voltage: ±10 % Permissible variation of mains frequency: ±5 %				
Overvoltage category	Category III according to IEC 60364-4-443				
Insulation class	Standard:	F, tropicalized			
	Option:	H, tropicalized			

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Features and functions					
Motor protection	Standard:	ndard: Thermoswitches (NC)			
	Option:	PTC thermistors (according to DIN 44082)			
Motor heater (option)	Voltages:	110 – 120 V AC, 220 – 240 V AC or 380 – 480 V AC			
	Power	12.5 W			
Swing angle	Standard:	Adjustable between 75° and < 105°			
	Options:	15° to < 45°, 45° bis < 75°, 105° to < 135°, 135° to < 165°, 165° to < 195°, 195° to < 225°			
Self-locking	Yes (Part-turn actuators are self-locking if the valve position cannot be changed from standstill while torqu acts upon the output drive.)				
Manual operation	Manual drive for setting and emergency operation, handwheel does not rotate during electrical operation.				
	Option: Handwheel lockable Handwheel stem extension Power tool for emergency operation with square 30 mm or 50 mm				
Indication for manual operation (option)	Indication whether manual operation is active/not active via single switch (1 change-over contact)				
Electrical connection	Standard:	AUMA plug/socket connector with screw-type connection			
	Option:	Terminals or crimp-type connection Gold-plated control plug (sockets and pins)			
Threads for cable entries	Standard:	Metric threads			
	Option:	Pg-threads, NPT-threads, G-threads			
Terminal plan	TPA00R100-0I1-000 (basic version)				
Splined coupling for connection to the	Standard:	Coupling without bore			
valve shaft	Options:	Machined coupling with bore and keyway, square bore or bore with two-flats according to EN ISO 5211			
Valve attachment	Dimensions according to EN ISO 5211 without spigot				
With base and lever (option)					
Swing lever	Made of spheroidal cast iron with two or three bores for fixing a lever arrangement. Considering the installation conditions, the lever may be mounted to the output shaft in any desired position.				
Ball joints (option)	Two ball joints matching the lever, including lock nuts and two welding nuts, suitable for pipe according to dimension sheet.				
Fixing	Base and four holes for fastening screws				
Electronic control unit					
Non-Intrusive setting	ŭ	t and torque transmitter (MWG)			
Position feedback signal	Via actuator o				
Torque feedback signal	Via actuator o				
Running indication	Blinking signal via actuator controls				
Heater in switch compartment	Resistance type heater with 5 W, 24 V AC				
Service conditions					
Use	Indoor and outdoor use permissible				
Mounting position	Any position				
Installation altitude	≤ 2,000 m above sea level > 2,000 m above sea level on request				
Ambient temperature	Standard: -30 °C to +70 °C				
	Options: -40 °C to +70 °C -60 °C to +60 °C				
Humidity	Up to 100 %	relative humidity across the entire permissible temperature range			

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Service conditions					
Enclosure protection according to EN	Standard:	IP68			
60529	Option:	Option: DS terminal compartment additionally sealed against interior of actuator (double sealed)			
	According to AUMA definition, enclosure protection IP68 meets the following requirements: Depth of water: maximum 8 m head of water Duration of continuous immersion in water: Max. 96 hours Up to 10 operations during immersion				
Pollution degree according to IEC 60664-1	Pollution degree 4 (when closed), pollution degree 2 (internal)				
Corrosion protection	Standard:	KS: Suitable for use in areas with high salinity, almost permanent condensation, and high pollution.			
	Option:	KX . Suitable for use in areas with extremely high salinity, permanent condensation, and high pollution.			
Coating	Double layer powder coating Two-component iron-mica combination				
Colour	Standard:	AUMA silver-grey (similar to RAL 7037)			
	Option:	Available colours on request			
Lifetime	AUMA part-turn actuators meet or exceed the lifetime requirements of EN 15714-2. Detailed information can be provided on request.				
Sound pressure level	< 72 dB (A)				
Further information					
EU Directives	Machinery Directive 2006/42/EC Low Voltage Directive 2014/35/EU EMC Directive 2014/30/EU RoHS Directive 2011/65/EU RED Directive 2014/53/EU				

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