FQMEx 05.1 - FQMEx 12.1

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Technical data Fail safe unit

Туре	Fail safe opera- tion in s/90°1)	Min. torque	Suitable part-turn actuator		Valve attachment		Valve shaft			Weight ²⁾
	Can be set in the factory	[Nm]	Туре	Possible operat- ing times s/90°	Standard EN ISO 5211	Option EN ISO 5211	Cylindrical Max. [mm]	Square Max. [mm]	Two-flat Max. [mm]	approx. [kg]
FQMEx 05.1	9 to 34	150	SQEx 05.2	5.6 to 32	F07	F10	25.4	22	22	63
FQMEx 07.1	8 to 26	300	SQEx 07.2	5.6 to 32	F07	F10	25.4	22	22	66
FQMEx 10.1	15 to 54	600	SQEx 10.2	11 to 63	F10	F12	50	36	36	137
FQMEx 12.1	13 to 39	1,200	SQEx 12.2	22 to 63	F12	F14	50	36	36	140

1) 2)

The operating time increases with the torque requirement The weights of SQEx .2 actuators and AC .2 actuator controls must be added.

Features and functions									
Explosion protection	ATEX:	II2G Ex db eb IIB T4 Gb							
	IECEx:	Ex db eb IIB T4 Gb							
	FM:	Class I, Div. 1, Groups C, D T4							
		Class I, Zone 1, Group IIB T4							
	EAC:	1 ExdellBT4							
		1 ExcdIIBT4							
Type of duty	Standard:	FQMEx: Short-time duty S2 - 15 min, classes A and B according to EN 15714-2							
	Option:	FQMREx: Intermittent duty S4 - 25%, class C according to EN 15714-2 (not available in SIL version)							
Mains voltage, mains frequency	Standard vo	Standard voltages:							
	-	3-phase AC Voltages/frequencies							
	Volt 200 - 2	240 200 - 240 380 - 690 380 - 690							
	Hz 50	60 50 60							
	Special volta	Special voltages:							
	Wechselstr Voltage/free								
	Volt 100 -	- 240 100 - 240							
	Hz 5	0 60							
	Further voltages on request Permissible variation of mains voltage: ±10 % Permissible variation of mains frequency: ±5 %								
Overvoltage category	Category III	Category III according to IEC 60364-4-443							
ESD input		rrent consumption: approx. 1 A voltage variation: +20%/–15%							
Status signals	0.1 A at 30 \	Single switch (1 NC and 1 NO) for each end position, galvanically isolated for OPEN and CLOSED: m. 0.1 A at 30 V DC Output contact for fail safe function ready signal: max. 0.1 A at 30 V DC							
Swing angle	Adjustable b	between 80° and 96°							
Electrical connection	Standard:	AUMA Ex plug/socket connector with screw-type terminals (KP), max. 38 control terminals max. power supply 525 V AC							
	Options:	AUMA Ex plug/socket connector with terminal blocks (KES)							
Threads for cable entry	Standard:	Metric threads							
	Options:	Pg-threads, NPT-threads, G-threads							
Terminal plan	Terminal pla	n according to order number enclosed with delivery							

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Features and functions						
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					
Service conditions						
Use	Indoor and outdoor use permissible					
Mounting position	Any position (for horizontal mounting position, a support is required)					
Installation altitude		000 m above sea level 000 m above sea level on request				
Ambient temperature	Standard:	-30 °C to +60 °C (ATEX and IECEx)				
	Options:	FQMEx 05.1 – FQMEx 07.1: -60 °C to +60 °C (ATEX, IECEx and EAC) -40 °C to +60 °C (FM) FQMEx 10.1 – FQMEx 12.1: -40 °C to +60 °C (ATEX and IECEx) -25 °C to +60 °C (FM) -20 °C to +60 °C (EAC)				
	For exact vers	sion, refer to actuator name plate.				
Enclosure protection according to EN 60529	 IP68 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 					
Pollution degree according to IEC 60664-1	Pollution degree 4 (when closed), pollution degree 2 (internal)					
Vibration resistance according to IEC 60068-2-6	FQMEx 05.1/07.1 with valve attachment F07 = 0.3 g , 10 to 200 Hz FQMEx 05.1/07.1 with valve attachments F10 = 0.5 g , 10 to 200 Hz FQMEx 10.1/12.1 with valve attachment F10 = 0.3 g , 10 to 200 Hz FQMEx 10.1/12.1 with valve attachments F12 = 0.5 g , 10 to 200 Hz Resistant to vibration during start-up or for failures of the plant. However, a fatigue strength may not be derived from this.					
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	500 fail safe operations (ESD cycles) AUMA fail safe units meet or even exceed the lifetime requirements of EN 15714-2 in motor op Detailed information can be provided on request.					
Further information						
EU Directives	Electroma	ective: (2014/34/EU) agnetic Compatibility (EMC): (2014/30/EU) y Directive: (2006/42/EC)				

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