

Technical data Valve actuators with actuator controls MEC 02.1							SV 05.1 – SV 07.1 with MEC 02.1 Marine Version													
Type	Speed rpm	Torque range ¹⁾	Running torque ²⁾	Valve attachment	Factor ³⁾	Valve shaft			Handwheel/crank acc. to VG 85 081 ⁴⁾		approx. kg ⁵⁾									
	50 Hz/60 Hz	max. Nm	max. Nm	Standard EN ISO 5211		Cylindrical max. mm	Square max. mm	Two-flat max. mm	Ø mm	Reduction ratio										
SV 05.1	2.5 – 20	25	13	F07	3	20.0	17	17	125	13.5:1	9									
SV 07.1	2.5 – 20	50	25	F07	3	25.4	22	22	125	13.5:1	14									
General information																				
Valve actuators require actuator controls MEC 02.1 for wall mounting.																				
Features and functions																				
Supply voltage		<table><tr><td colspan="3">1-phase AC current-voltages/frequencies</td></tr><tr><td>Volts</td><td>115</td><td>230</td></tr><tr><td>Hz</td><td>50/60</td><td>50/60</td></tr></table>										1-phase AC current-voltages/frequencies			Volts	115	230	Hz	50/60	50/60
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Hz	50/60	50/60																		
Type of duty ⁶⁾		Short time duty S2 - 15 min																		
Motors		Variable speed motor for 1-phase AC supply																		
Insulation class		F, tropicalized																		
Motor protection		Interruption of circuit																		
Speed control		Actual value monitoring by Hall sensors. PI speed control with defined load/ speed range																		
Self-locking		yes																		
Limit switching		Contactless end position switches (Hall sensors) for end positions OPEN and CLOSED with reduction gearing for 1, 2, 3, 4, 5, 6, and 8 turns per hub																		
Torque switching		Electronic current measurement, infinitely adjustable																		
Mechanical position indicator		Continuous indication, adjustable indicator disc with symbols OPEN and CLOSED																		
Manual operation		Manual drive for setting and emergency operation, handwheel does not rotate during electric operation																		
Electrical connection		SV: 2 plug/socket connectors with crimp connection (by ITT Cannon) and dust covers ⁷⁾ : Mains and motor 5-pole, controls: 7-pole Cross section max. 1.5 mm ² Cable diameter for motor max. 13.5 mm, for controls max. 18.7 mm MEC: 4 plug/socket connectors with crimp connection (by ITT Cannon) and dust covers ⁷⁾ : Mains and motor 5-pole, controls: 7-pole Cross section max. 1.5 mm ² Cable diameter for motor max. 13.5 mm, for controls max. 18.7 mm																		
Splined coupling for connection to the valve shaft		Standard: Coupling without bore Options: Machined coupling with bore and keyway, square bore or bore with two-flats according to EN ISO 5211																		
Switchgear		Motor control via 3-phase link, galvanically isolated via driver stage, operated by motor controller																		
Control		Standard: Control inputs 24 V DC, OPEN – CLOSED continuous signal, via opto-coupler galvanically isolated, current consumption: approx 15 mA per input Option: Voltage supply 110 – 120 V only: - Control inputs 24 V DC, OPEN – CLOSED/EMERGENCY – CLOSED - Control inputs 24 V DC, OPEN – CLOSED/EMERGENCY – OPEN																		
Output signals		Standard: 3 potential-free change-over contacts with one common, max. 24 V DC, 2 A (resistive load): End position OPEN, end position CLOSED, Collective fault signal, consisting of: - Torque fault - Phase failure/voltage failure at the mains Option: Additionally, 2 potential-free change-over contacts with one common, max. 24 V DC, 2 A (resistive load): Selector switch LOCAL, selector switch REMOTE																		
Position feedback (option)		Electronic position transmitter RWG (2-wire, external supply) with analogue output 4 – 20 mA (load max. 600 Ω)																		
Wiring diagram (basic version)		CIM910-001001000 AIM110-000																		
1) Tripping torque for both directions 2) Permissible average torque for the whole travel 3) Conversion factor output torque to input torque 4) Hub does not comply with VG 85 081; other versions upon request 5) Valve actuator weight with variable speed motors, standard electrical connection, unbored coupling, and handwheel/ crank 6) For nominal voltage and 20 °C ambient temperature and an average load with running torque 7) Female sockets and connecting cables are not included in the basic version. Other makes (e.g. GISMA, Litton Veam, Amphanol), on request																				
We reserve the right to alter data according to improvements made. Previous documents become invalid with the issue of this document.																				
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