

**Electrical data Multi-turn actuators for open-close duty
with 3-phase AC motors
Short-time duty S2 - 15 min, 380 V/50 Hz**

SM04-SM100

Multi-turn actuator			Motor								SCHWARZ Power class		Approx. Weight (kg)
Type	Speed rpm	Torque max. Nm	Type	Power PN (kW) ¹	Speed rpm	Nominal current IN (A) ²⁾	Current approx. I _{max} (A) ³⁾	Starting current IA (A)	cos φ	Contactor ⁴⁾	Thyristor ⁴⁾		
SM04	11	40	MA04-4-0.13	0.13	1400	0.40	0.5	1.1	0.50	C1	T1	26	
	22		MA04-8-0.23	0.23	700	0.60	0.7	2.0	0.57	C1	T1		
	45		MA04-4-0.28	0.28	1400	1.00	1.1	2.5	0.42	C1	T1	27	
	90		MA04-4-0.32	0.32	1400	0.80	1.4	4.6	0.60	C1	T1		
	135	MA04-4-0.41	0.41	1400	0.90	1.6	4.6	0.70	C1	T1			
	180	35	MA04-2-0.48	0.48	2800	1.05	1.7	4.6	0.70	C1	T1		
SM07	11	70	MA07-4-0.15	0.15	1400	0.60	0.7	1.7	0.38	C1	T1	28	
	22		MA07-8-0.24	0.24	700	0.70	1.1	3.2	0.52	C1	T1		
	45		MA07-4-0.47	0.47	1400	1.70	2.1	4.8	0.42	C1	T1	29	
	90		MA07-4-0.59	0.59	1400	1.70	2.6	9.5	0.53	C1	T1		
	135		MA07-4-0.73	0.73	1400	1.80	3.2	9.5	0.62	C1	T1		
	180	60	MA07-2-0.81	0.81	2800	1.98	3.4	9.5	0.62	C1	T1		
SM12	9	120	MA12-4-0.29	0.29	1400	1.10	1.2	3.2	0.40	C1	T1	31	
	18		MA12-4-0.48	0.48	700	1.40	1.6	4.7	0.52	C1	T1		
	35		MA12-4-0.72	0.72	1400	2.60	2.7	8.9	0.42	C1	T1	34	
	70		MA12-4-1.14	1.14	1400	3.20	3.8	17	0.54	C1	T1		
	105		MA12-4-1.56	1.56	1400	3.70	5.5	17	0.64	C1	T2		
	140	100	MA12-2-1.64	1.64	2800	3.90	5.8	17	0.64	C1	T2		
SM30	9	300	MA30-4-0.43	0.43	1400	1.10	1.7	5.5	0.60	C1	T1	52	
	18		MA30-8-0.67	0.67	700	1.60	3.2	9.5	0.64	C1	T1		
	35		MA30-4-1.06	1.06	1400	2.60	4.2	17	0.62	C1	T1	56	
	70		MA30-4-1.93	1.93	1400	4.90	7.4	40	0.60	C1	T2		
	105		MA30-4-2.40	2.40	1400	5.60	12	40	0.65	C1	T2		
	140	250	MA30-2-2.52	2.52	2800	5.90	12	40	0.65	C1	T2		
SM50	9	500	MA50-4-0.66	0.66	1400	1.80	3.2	9.8	0.56	C1	T1	54	
	18		MA50-8-1.28	1.28	700	3.80	5.3	19	0.51	C1	T1		
	35		MA50-4-2.10	2.10	1400	5.60	7.9	40	0.57	C1	T2	61	
	70		MA50-4-3.75	3.75	1400	9.50	14	61	0.60	C2	—		
	105		MA50-4-4.28	4.28	1400	10.00	22	61	0.65	C2	—		
	140	400	MA50-2-4.75	4.75	2800	11.10	23	61	0.65	C2	—		
SM100	9	1000	MA100-4-1.09	1.09	1400	2.90	5.3	23	0.57	C1	T1	77	
	18		MA100-8-1.91	1.91	700	5.10	9.2	42	0.57	C1	T2		
	35		MA100-4-4.16	4.16	1400	8.90	14	63	0.71	C2	—	88	
	70		MA100-4-6.32	6.32	1400	12.00	26	126	0.80	C3	—		
	105		MA100-4-7.10	7.10	1400	13.00	37	126	0.83	C3	—		
	140	800	MA100-2-8.30	8.30	2800	15.20	47	126	0.83	C3	—		92

1) The nominal electrical power can be calculated using the following formula: $P = U \times I \times \cos \phi \times \sqrt{3}$

2) Current at operating torque

3) Current at max. torque. We recommend to select switchgears according to these values.

4) Assignment of switchgears when using SCHWARZ controls of types SC01. C1≤3KW; 3KW<C2≤6KW; C3>6KW; T1≤1.5KW; 1.5KW<T2≤3KW

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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