Electrical data Multi-turn actuators for open-close duty with DC motors
Short-time duty S2 - 15 min, 24 V DC

SA 07.1 – SA 16.1

Multi-turn actuator			Motor									
Type	Speed rpm	Torque max. Nm	Type	Power P_N (kW)	Speed rpm	Nominal current[1] I_N (A)	Current[2] approx. Imax. (A)	Starting current I_A (A)	Field current I_F (A)	Protective resistor R_V (Ω)	Setting Overcurrent prot. device (A)	AUMA Power class Contactor
SA 07.1	4	30	FN00063-4-0.02	0.02	1,400	2.0	3.5	27	2.4	–	3.5	A2
	5.6		FN00063-4-0.02	0.02	1,400	2.0	3.8	27	2.4	–	3.8	A2
	8		FN00063-4-0.04	0.045	1,400	3.5	6.0	27	2.4	–	6.0	A2
	11		FN00063-4-0.04	0.045	1,400	3.5	6.5	27	2.4	–	6.5	A2
	16		FN00063-2-0.09	0.09	2,800	7.0	12	80	2.4	–	12	–
	22		FN00063-2-0.09	0.09	2,800	7.0	13	80	2.4	–	13	–
	32		FN00071-4-0.18	0.18	1,400	11	16	67	2.6	–	16	A2
	45		FN00071-4-0.18	0.18	1,400	11	19	67	2.6	–	16	A2
	63		FN00071-2-0.37	0.37	2,800	20	26	170	3.6	–	25	–
	90		FN00071-2-0.37	0.37	2,800	20	30	170	3.6	–	25	–
	125		FN00071-2-0.37	0.37	2,800	20	38	170	3.6	–	25	–
	180		FN00071-2-0.37	0.37	2,800	20	42	170	3.6	–	25	–
SA 07.5	4	60	FN00063-4-0.04	0.045	1,400	3.5	5.0	27	2.4	–	5.0	A2
	5.6		FN00063-4-0.04	0.045	1,400	3.5	5.0	27	2.4	–	5.0	A2
	8		FN00063-4-0.12	0.12	1,400	7.0	10	27	2.4	–	10	A2
	11		FN00063-4-0.12	0.12	1,400	7.0	11	27	2.4	–	11	A2
	16		FN00063-2-0.25	0.25	2,800	15	19	80	2.4	–	18	–
	22		FN00063-2-0.25	0.25	2,800	15	22	80	2.4	–	18	–
	32		FN00080-4-0.37	0.37	1,400	23	28	150	3.4	–	28	–
	45		FN00080-4-0.37	0.37	1,400	23	35	150	3.4	–	29	–
	63		FN00080-2-0.75	0.75	2,800	47	50	240	3.4	–	47	–
	90		FN00080-2-0.75	0.75	2,800	47	62	240	3.4	–	47	–
	125		FN00080-2-0.75	0.75	2,800	47	80	240	3.4	–	47	–
	180	50	FN00080-2-0.75	0.75	2,800	47	90	240	3.4	–	47	–
SA 10.1	4	120	FN00063-4-0.12	0.12	1,400	7.0	8.0	27	2.4	–	8.0	A2
	5.6		FN00063-4-0.12	0.12	1,400	7.0	11	27	2.4	–	11	A2
	8		FN00071-4-0.18	0.18	1,400	11	16	67	2.6	–	16	A2
	11		FN00071-4-0.18	0.18	1,400	11	20	67	2.6	–	16	A2
	16		FN00071-2-0.37	0.37	2,800	20	28	170	3.6	–	25	–
	22		FN00071-2-0.37	0.37	2,800	20	38	170	3.6	–	25	–
	32		FN00090-4-0.55	0.55	1,400	38	55	210	2.6	–	47	–
	45		FN00090-4-0.55	0.55	1,400	38	70	210	2.6	–	47	–
	63		FN00090-2-1.10	1.1	2,800	70	92	250	2.6	–	85	–
	90		FN00090-2-1.10	1.1	2,800	70	112	250	2.6	–	85	–
	125		FN00090-2-1.10	1.1	2,800	70	140	250	2.6	–	85	–
	180	100	FN00090-2-1.10	1.1	2,800	70	145	250	2.6	–	85	–
SA 14.1	4	250	FN00080-8-0.18	0.18	700	17	31	55	3.4	–	17	A2
	5.6		FN00080-8-0.18	0.18	700	17	35	55	3.4	–	17	A2
	8		FN00080-4-0.37	0.37	1,400	23	40	150	3.4	–	29	–
	11		FN00080-4-0.37	0.37	1,400	23	48	150	3.4	–	29	–
	16		FN00080-2-0.75	0.75	2,800	47	70	240	3.4	–	47	–
	22		FN00080-2-0.75	0.75	2,800	47	77	240	3.4	–	47	–
	32		FL00100-4-1.50	1.5	1,400	85	107	200	13	–	86	–
	45		FL00100-4-1.50	1.5	1,400	85	124	200	13	–	86	–
	63		FL00100-2-3.00	3.0	2,800	170	201	400	13	–	170	–
	90		FL00100-2-3.00	3.0	2,800	170	234	400	13	–	170	–
	125		FL00100-2-3.00	3.0	2,800	170	310	400	13	–	170	–
	180	200	FL00100-2-3.00	3.0	2,800	170	308	400	13	–	170	–
SA 14.5	4	500	FN00090-8-0.37	0.37	700	24	40	90	4.6	–	24	–
	5.6		FN00090-8-0.37	0.37	700	24	44	90	4.6	–	24	–
	8		FN00090-4-0.75	0.75	1,400	47	72	210	4.6	–	47	–
	11		FN00090-4-0.75	0.75	1,400	47	81	210	4.6	–	47	–
	16		FN00090-2-1.50	1.5	2,800	85	120	250	4.6	–	85	–
	22		FN00090-2-1.50	1.5	2,800	85	138	250	4.6	–	85	–
	32		FL00112-4-3.00	3.0	1,400	170	193	270	10	–	170	–
	45		FL00112-4-3.00	3.0	1,400	170	226	270	10	–	170	–
SA 16.1	4	1,000	FL00100-8-0.75	0.75	700	45	73	120	12	–	48	–
	5.6		FL00100-8-0.75	0.75	700	45	79	120	12	–	48	–
	8		FL00100-4-1.50	1.5	1,400	85	128	200	12	–	86	–
	11		FL00100-4-1.50	1.5	1,400	85	140	200	12	–	86	–
	16		FL00100-2-3.00	3.0	2,800	170	230	400	13	–	170	–
	22		FL00100-2-3.00	3.0	2,800	170	264	400	13	–	170	–

1) Current at running torque according to "Technical data SA 07.1 – SA 16.1".
2) Current at max. torque. We recommend to select switching devices accoding to these values.

We reserve the right to alter data according to improvements made. Previous documents become invalid with the issue of this document.

Up to size 90 DC motors are manufactured as shunt motors, from size 100 as compound motors.

DC motors are generally designed without motor protection since the motor heats up within the rotor and not within the field windings.

Motor data are approximate. Due to usual manufacturing tolerances, there may be deviations from the values given.

For notes on the threads of the cable entries as well as other information, refer to “Technical data Multi-turn actuators for open-close duty with DC motors”.