Electrical data Multi-turn actuators for open-close duty with DC motors
Short-time duty S2 - 15 min, 48 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	1.0	1.8	14	1.2	–	1.8	A2
	5.6		FN00063-4-0.02	0.02	1,400	1.0	1.9	14	1.2	–	1.9	A2
	8		FN00063-4-0.04	0.045	1,400	1.8	3.0	14	1.2	–	3.0	A2
	11		FN00063-4-0.04	0.045	1,400	1.8	3.3	14	1.2	–	3.3	A2
	16		FN00063-2-0.09	0.09	2,800	3.5	6.0	40	1.2	–	6.0	A2
	22		FN00063-2-0.09	0.09	2,800	3.5	6.5	40	1.2	–	6.5	A2
	32		FN00071-4-0.18	0.18	1,400	5.5	8.0	34	1.3	–	7.8	A2
	45		FN00071-4-0.18	0.18	1,400	5.5	9.5	34	1.3	–	7.8	A2
	63		FN00071-2-0.37	0.37	2,800	10	13	85	1.8	–	13	–
	90		FN00071-2-0.37	0.37	2,800	10	15	85	1.8	–	13	–
	125		FN00071-2-0.37	0.37	2,800	10	19	85	1.8	–	13	–
	180		FN00071-2-0.37	0.37	2,800	10	21	85	1.8	–	13	–
SA 07.5	4	60	FN00063-4-0.04	0.045	1,400	1.8	2.5	14	1.2	–	2.5	A2
	5.6		FN00063-4-0.04	0.045	1,400	1.8	2.5	14	1.2	–	2.5	A2
	8		FN00063-4-0.12	0.12	1,400	3.5	5.0	14	1.2	–	5.0	A2
	11		FN00063-4-0.12	0.12	1,400	3.5	5.5	14	1.2	–	5.4	A2
	16		FN00063-2-0.25	0.25	2,800	7.5	9.5	40	1.2	–	8.8	A2
	22		FN00063-2-0.25	0.25	2,800	7.5	11	40	1.2	–	8.8	A2
	32		FN00080-4-0.37	0.37	1,400	12	14	75	1.7	–	14	A2
	45		FN00080-4-0.37	0.37	1,400	12	18	75	1.7	–	15	A2
	63		FN00080-2-0.75	0.75	2,800	24	25	120	1.7	–	24	–
	90		FN00080-2-0.75	0.75	2,800	24	31	120	1.7	–	24	–
	125		FN00080-2-0.75	0.75	2,800	24	40	120	1.7	–	24	–
	180	50	FN00080-2-0.75	0.75	2,800	24	45	120	1.7	–	24	–
SA 10.1	4	120	FN00063-4-0.12	0.12	1,400	3.5	4.0	14	1.2	–	4.0	A2
	5.6		FN00063-4-0.12	0.12	1,400	3.5	5.5	14	1.2	–	4.9	A2
	8		FN00071-4-0.18	0.18	1,400	5.5	8.0	34	1.3	–	7.8	A2
	11		FN00071-4-0.18	0.18	1,400	5.5	10	34	1.3	–	7.8	A2
	16		FN00071-2-0.37	0.37	2,800	10	14	85	1.8	–	13	–
	22		FN00071-2-0.37	0.37	2,800	10	19	85	1.8	–	13	–
	32		FN00090-4-0.55	0.55	1,400	19	28	105	1.3	–	23	–
	45		FN00090-4-0.55	0.55	1,400	19	35	105	1.3	–	23	–
	63		FN00090-2-1.10	1.1	2,800	35	46	125	1.3	–	46	–
	90		FN00090-2-1.10	1.1	2,800	35	56	125	1.3	–	47	–
	125		FN00090-2-1.10	1.1	2,800	35	70	125	1.3	–	47	–
	180	100	FN00090-2-1.10	1.1	2,800	35	73	125	1.3	–	47	–
SA 14.1	4	250	FN00080-8-0.18	0.18	700	8.5	16	28	1.7	–	8.7	A2
	5.6		FN00080-8-0.18	0.18	700	8.5	18	28	1.7	–	8.7	A2
	8		FN00080-4-0.37	0.37	1,400	12	20	75	1.7	–	15	A2
	11		FN00080-4-0.37	0.37	1,400	12	24	75	1.7	–	15	A2
	16		FN00080-2-0.75	0.75	2,800	24	35	120	1.7	–	24	–
	22		FN00080-2-0.75	0.75	2,800	24	39	120	1.7	–	24	–
	32		FL00100-4-1.50	1.5	1,400	43	54	100	6.5	–	37	–
	45		FL00100-4-1.50	1.5	1,400	43	62	100	6.5	–	37	–
	63		FL00100-2-3.00	3.0	2,800	85	100	200	6.5	–	73	–
	90		FL00100-2-3.00	3.0	2,800	85	117	200	6.5	–	73	–
	125		FL00100-2-3.00	3.0	2,800	85	155	200	6.5	–	73	–
	180	200	FL00100-2-3.00	3.0	2,800	85	154	200	6.5	–	73	–
SA 14.5	4	500	FN00090-8-0.37	0.37	700	12	20	45	2.3	–	12	A2
	5.6		FN00090-8-0.37	0.37	700	12	22	45	2.3	–	12	A2
	8		FN00090-4-0.75	0.75	1,400	24	36	105	2.3	–	23	–
	11		FN00090-4-0.75	0.75	1,400	24	41	105	2.3	–	23	–
	16		FN00090-2-1.50	1.5	2,800	43	60	125	2.3	–	47	–
	22		FN00090-2-1.50	1.5	2,800	43	69	125	2.3	–	47	–
	32		FL00112-4-3.00	3.0	1,400	85	97	135	5.0	–	73	–
	45		FL00112-4-3.00	3.0	1,400	85	113	135	5.0	–	73	–
SA 16.1	4	1,000	FL00100-8-0.75	0.75	700	23	37	60	6.0	–	21	A2
	5.6		FL00100-8-0.75	0.75	700	23	40	60	6.0	–	21	A2
	8		FL00100-4-1.50	1.5	1,400	43	64	100	6.0	–	37	–
	11		FL00100-4-1.50	1.5	1,400	43	70	100	6.0	–	37	–
	16		FL00100-2-3.00	3.0	2,800	85	115	200	6.5	–	73	–
	22		FL00100-2-3.00	3.0	2,800	85	132	200	6.5	–	73	–

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”.