Electrical data Multi-turn actuators for modulating duty with DC motors
Intermittent duty S4 - 25 %, 48 V DC

SAR 07.1 – SAR 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)
SAR 07.1	4	30	FN0R063-4-0.02	0.02	1,400	1.0	1.8	14	1.2	–
	5.6		FN0R063-4-0.02	0.02	1,400	1.0	1.9	14	1.2	–
	8		FN0R063-4-0.04	0.045	1,400	1.8	3.0	14	1.2	–
	11		FN0R063-4-0.04	0.045	1,400	1.8	3.3	14	1.2	–
	16		FN0R063-2-0.09	0.09	2,800	3.5	6.0	40	1.2	–
	22		FN0R063-2-0.09	0.09	2,800	3.5	6.5	40	1.2	–
	32		FN0R071-4-0.18	0.18	1,400	5.5	8.0	34	1.3	–
	45		FN0R071-4-0.18	0.18	1,400	5.5	9.5	34	1.3	–
SAR 07.5	4	60	FN0R063-4-0.04	0.045	1,400	1.8	2.5	14	1.2	–
	5.6		FN0R063-4-0.04	0.045	1,400	1.8	2.5	14	1.2	–
	8		FN0R063-4-0.12	0.12	1,400	3.5	5.0	14	1.2	–
	11		FN0R063-4-0.12	0.12	1,400	3.5	5.5	14	1.2	–
	16		FN0R063-2-0.25	0.25	2,800	7.5	9.5	40	1.2	–
	22		FN0R063-2-0.25	0.25	2,800	7.5	11	40	1.2	–
	32		FN0R080-4-0.37	0.37	1,400	12	14	75	1.7	–
	45		FN0R080-4-0.37	0.37	1,400	12	18	75	1.7	–
SAR 10.1	4	120	FN0R063-4-0.12	0.12	1,400	3.5	4.0	14	1.2	–
	5.6		FN0R063-4-0.12	0.12	1,400	3.5	5.5	14	1.2	–
	8		FN0R071-4-0.18	0.18	1,400	5.5	8.0	34	1.3	–
	11		FN0R071-4-0.18	0.18	1,400	5.5	10	34	1.3	–
	16		FN0R071-2-0.37	0.37	2,800	10	14	85	1.8	–
	22		FN0R071-2-0.37	0.37	2,800	10	19	85	1.8	–
	32		FN0R090-4-0.55	0.55	1,400	19	28	105	1.3	–
	45		FN0R090-4-0.55	0.55	1,400	19	35	105	1.3	–
SAR 14.1	4	250	FN0R080-8-0.18	0.18	700	8.5	16	28	1.7	–
	5.6		FN0R080-8-0.18	0.18	700	8.5	18	28	1.7	–
	8		FN0R080-4-0.37	0.37	1,400	12	20	75	1.7	–
	11		FN0R080-4-0.37	0.37	1,400	12	24	75	1.7	–
	16		FN0R080-2-0.75	0.75	2,800	24	35	120	1.7	–
	22		FN0R080-2-0.75	0.75	2,800	24	39	120	1.7	–
	32		FL0R100-4-1.50	1.5	1,400	43	54	100	6.5	–
	45		FL0R100-4-1.50	1.5	1,400	43	62	100	6.5	–
SAR 14.5	4	500	FN0R090-8-0.37	0.37	700	12	20	45	2.3	–
	5.6		FN0R090-8-0.37	0.37	700	12	22	45	2.3	–
	8		FN0R090-4-0.75	0.75	1,400	24	36	105	2.3	–
	11		FN0R090-4-0.75	0.75	1,400	24	41	105	2.3	–
	16		FN0R090-2-1.50	1.5	2,800	43	60	125	2.3	–
	22		FN0R090-2-1.50	1.5	2,800	43	69	125	2.3	–
	32		FL0R112-4-3.00	3.0	1,400	85	97	135	5.0	–
	45		FL0R112-4-3.00	3.0	1,400	85	113	135	5.0	–
SAR 16.1	4	1,000	FL0R100-8-0.75	0.75	700	23	37	60	6.0	–
	5.6		FL0R100-8-0.75	0.75	700	23	40	60	6.0	–
	8		FL0R100-4-1.50	1.5	1,400	43	64	100	6.0	–
	11		FL0R100-4-1.50	1.5	1,400	43	70	100	6.0	–
	16		FL0R100-2-3.00	3.0	2,800	85	115	200	6.5	–
	22		FL0R100-2-3.00	3.0	2,800	85	132	200	6.5	–

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 modulating duty with DC motors".

1) Current at modulating torque according to "Technical data SAR 07.1 – SAR 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.