

# Electrical Data for OPEN - CLOSE Duty

<b>auma®</b>		Electrical Data OPEN-CLOSE Duty						SA 3 - SA 100		
Model	Output Speed at 50Hz rpm	Torque max. Nm	Three phase Squirrel cage AC Motor 415V, 50 Hz							
			Nominal Output kW	Speed rpm	Size	Nominal Current / Full Load Current * A	Current at Max. Torque1) A	Starting Current A	Power Factor Cos φ	Full Load Efficiency (%)
SA 3	11	30	0.06	1400	63	0.29	0.31	1.2	0.6	48
	16		0.06	1400	63	0.29	0.38	1.2	0.6	48
	22		0.06	1400	63	0.29	0.50	1.2	0.6	48
	32		0.12	1400	63	0.65	0.87	2.3	0.53	50
	45		0.18	2800	63	0.58	0.9	3.3	0.66	65
	63		0.18	2800	63	0.58	1.3	3.3	0.66	65
	90		0.37	2800	63	1.32	1.9	5.7	0.61	64
	125		0.37	2800	63	1.32	1.6	5.7	0.61	64
180	0.37	2800	63	1.32	2.2	5.7	0.61	64		
SA3.5	16	35	0.06	1400	63	0.29	0.42	1.2	0.6	48
SA 6	4	60	0.06	1400	63	0.29	0.29	1.2	0.6	48
	5.6		0.06	1400	63	0.29	0.31	1.2	0.6	48
	8		0.06	1400	63	0.29	0.38	1.2	0.6	48
	11		0.12	1400	63	0.65	0.7	2.3	0.53	50
	16		0.12	1400	63	0.65	0.87	2.3	0.53	50
	22		0.12	1400	63	0.65	1.2	2.3	0.53	50
	32		0.18	2800	63	0.58	1.3	3.3	0.66	65
	45		0.37	2800	63	1.32	1.9	5.7	0.61	64
	63		0.37	2800	63	1.32	2.4	5.7	0.61	64
	90		0.55	2800	71	1.5	3.08	9.0	0.71	75
	125		0.55	2800	71	1.5	2.45	9.0	0.71	75
	180		0.55	2800	71	1.5	3.52	9.0	0.71	75
SA 12	4	120	0.06	1400	63	0.29	0.38	1.2	0.6	48
	5.6		0.12	1400	63	0.65	0.7	2.3	0.53	50
	8		0.12	1400	63	0.65	0.87	2.3	0.53	50
	11		0.12	1400	63	0.65	1.2	2.3	0.53	50
	16		0.25	1400	71	1.2	1.45	4.6	0.5	60
	22		0.25	1400	71	1.2	1.80	4.6	0.5	60
	32		0.37	2800	63	1.32	2.5	5.7	0.61	64
	45		0.55	2800	71	1.5	3.08	9.0	0.71	75
	63		1.1	2800	71	2.9	4.58	16.0	0.72	75
	90		1.1	2800	71	2.9	6.50	16.0	0.72	75
	125		1.1	2800	71	2.9	5.10	16.0	0.72	75
	180		1.1	2800	71	2.9	7.50	16.0	0.72	75
SA 15	4	150	0.06	1400	63	0.29	0.45	1.2	0.6	48
	5.6		0.12	1400	63	0.65	0.8	2.3	0.53	50
	8		0.12	1400	63	0.65	1.2	2.3	0.53	50
	11		0.25	1400	71	1.2	1.36	4.6	0.5	60
	16		0.25	1400	71	1.2	1.66	4.6	0.5	60
	22		0.37	2800	63	1.32	2.2	5.7	0.61	64
	32		0.55	2800	71	1.5	2.75	9.0	0.71	75
	45		1.1	2800	71	2.9	4.26	16.0	0.72	75
	63		1.1	2800	71	2.9	5.67	16.0	0.72	75
	90		1.3	2800	71	3.6	7.6	17	0.72	75
SA 25	4	250	0.12	1400	63	0.65	0.95	2.3	0.53	50
	5.6		0.25	1400	71	1.2	1.29	4.6	0.5	60
	8		0.25	1400	71	1.2	1.64	4.6	0.5	60
	11		0.55	1400	71	1.75	1.92	7.6	0.66	67
	16		0.55	1400	71	1.75	2.60	7.6	0.66	67
	22		0.55	1400	71	1.75	3.58	7.6	0.66	67
	32		1.1	2800	71	2.9	4.75	16.0	0.72	75
	45		1.1	2800	71	2.9	6.58	16.0	0.72	75
	63		2.2	2800	90	4.1	8.44	35	0.88	85
	90		2.2	2800	90	4.1	12.5	35	0.88	85
	125		2.2	2800	90	4.1	8.95	35	0.88	85
	180		2.2	2800	90	4.1	13.6	35	0.88	85

1) Current at max. torque. We recommended to select switch gear and cables suitable for those values.

\* Whenever actuators are supplied with integral starter with TOLR, the tripping current set on the TOLR is same as nominal current / Full Load current.

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

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# Electrical Data for OPEN - CLOSE Duty

<b>auma®</b>		Electrical Data OPEN-CLOSE Duty						SA 3 - SA 100		
Model	Output Speed at 50Hz rpm	Torque max. Nm	Three phase Squirrel cage AC Motor 415V, 50 Hz							
			Nominal Output kW	Speed rpm	Size	Nominal Current / Full Load Current * A	Current at Max. Torque1) A	Starting Current A	Power Factor Cos φ	Full Load Efficiency (%)
SA 30	4	300	0.12	1400	63	0.65	1.2	2.3	0.53	50
	5.6		0.25	1400	71	1.2	1.39	4.6	0.5	60
	8		0.25	1400	71	1.2	1.77	4.6	0.5	60
	11		0.55	1400	71	1.75	2.20	7.6	0.66	67
	16		0.55	1400	71	1.75	3.08	7.6	0.66	67
	22		1.1	1400	90	2.9	3.95	25.0	0.72	75
	32	1.1	2800	71	2.9	5.72	16.0	0.72	75	
	45	1.25	2800	90	2.7	8.65	22.0	0.81	79	
	63	2.2	2800	90	4.1	10.0	35	0.88	85	
	90	2.5	2800	90	4.7	15.5	35	0.88	84	
	125	2.5	2800	90	4.7	11.5	35	0.88	84	
	180	4.0	2800	90	9.0	16.5	60	0.82	82	
SA 50	4	500	0.25	1400	71	1.2	1.48	4.6	0.5	60
	5.6		0.55	1400	71	1.75	1.95	7.6	0.66	67
	8		0.55	1400	71	1.75	2.60	7.6	0.66	67
	11		0.55	1400	71	1.75	3.58	7.6	0.66	67
	16		1.1	1400	90	2.9	4.80	25.0	0.72	75
	22		1.1	1400	90	2.9	6.65	25.0	0.72	75
	32	2.2	2800	90	4.1	8.52	35	0.88	85	
	45	2.2	2800	90	4.1	12.5	35	0.88	85	
	63	4.0	2800	90	9.0	17.1	60	0.82	82	
	90	4.0	2800	90	9.0	26.0	60	0.82	82	
	125	4.0	2800	90	9.0	18	60	0.82	82	
	180	4.0	2800	90	9.0	30	60	0.82	82	
SA 60	4	600	0.25	1400	71	1.2	1.67	4.6	0.5	60
	5.6		0.55	1400	71	1.75	2.2	7.6	0.66	67
	8		0.55	1400	71	1.75	3.08	7.6	0.66	67
	11		0.55	1400	71	1.75	5.15	7.6	0.66	67
	16		1.1	1400	90	2.9	5.75	25.0	0.72	75
	22		2.2	1400	90	5.7	7.92	35	0.7	77
	32	2.2	2800	90	4.1	10.04	35	0.88	85	
	45	4.0	2800	90	9.0	15.05	60	0.82	82	
	63	4.0	2800	90	9.0	21.08	60	0.82	82	
	90	5.0	2800	112	10.8	31.08	90	0.84	88	
	125	5.0	2800	112	10.8	22.5	90	0.84	88	
	180	5.0	2800	112	10.8	35.5	90	0.84	88	
SA 100	4	1000	0.55	1400	71	1.75	2.55	7.6	0.66	67
	5.6		0.75	1400	90	1.85	3.85	12.0	0.75	75
	8		0.75	1400	90	1.85	4.65	12.0	0.75	75
	11		1.1	1400	90	2.9	6.65	25.0	0.72	75
	16		2.2	1400	90	5.7	9.06	35	0.7	77
	22		2.2	1400	90	5.7	12.5	35	0.7	77
	32	4.0	2800	90	9	17.5	60	0.82	82	
	45	4.0	2800	90	9	26.0	60	0.82	82	
	63	7.5	2800	112	15	40.0	116.0	0.82	84	
	90	7.5	2800	112	15	60.0	116.0	0.82	84	
	125	7.5	2800	112	15	44.6	116.0	0.82	84	
	180	7.5	2800	112	15	68.0	116.0	0.82	84	

Permissible voltage variation: ± 10%, Permissible frequency variation : ± 5%, Permissible combined variation: 10% if voltage drops below there will be reduction of nominal output.

Auma motors are provided with 3 thermostiches one in each winding connected in series to protect windings. Our Warranty is void if those thermostiches are not connected in control circuit.

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

\* Whenever actuators are supplied with integral starter with TOLR, the tripping current set on the TOLR is same as nominal current / Full Load current.

1) Current at max. torque. We recommend to select switch gear and cables suitable for those values.

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