

Asynchron-Elan types 2-pole

17/01/2024

Power

Continuous power for efficient water cooling

The peak power is considerably higher.

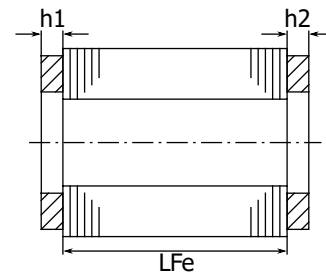
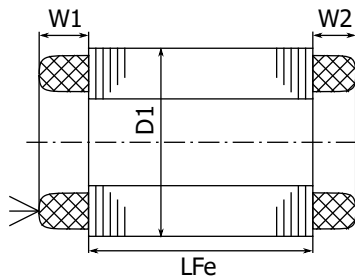
Rotor

material of squirrel cage: normal aluminium or copper for a bigger rotorbore (up to about 100 m/s). For higher speeds copper-rotors with steel reinforcement are available. Alternatively for higher speeds with reduced power, rotors in aluminium alloy are available.

Speed	in krpm	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90
Frequency	in Hz	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
Types (D1/LFe in cm)		Power in kW														
mW 6/2-2-s2r..		0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.1	1.2	1.3	1.4	1.6	1.7	1.8
mW 6/3-2-s2r..		0.18	0.36	0.54	0.72	0.9	1.1	1.3	1.4	1.6	1.8	2	2.2	2.3	2.5	2.7
mW 6/4.5-2-s2r..		0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3	3.3	3.6	3.9	4.2	4.5
mW 6/6-2-s2r..		0.43	0.87	1.3	1.7	2.2	2.6	3	3.5	3.9	4.3	4.8	5.2	5.6	6.1	6.5
mW 6/8-2-s2r..		0.61	1.2	1.8	2.4	3	3.6	4.2	4.9	5.5	6.1	6.7	7.3	7.9	8.5	9.1
mW 7/2-2-s1r..		0.12	0.23	0.35	0.47	0.58	0.7	0.82	0.93	1	1.2	1.3	1.4	1.4		
mW 7/3-2-s1r..		0.24	0.48	0.72	0.97	1.2	1.4	1.7	1.9	2.2	2.4	2.7	2.9	2.9		
mW 7/4-2-s1r..		0.35	0.7	1	1.4	1.8	2.1	2.4	2.8	3.2	3.5	3.8	4.2	4.5		
mW 7/5-2-s1r..		0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.2		
mW 7/6-2-s1r..		0.62	1.2	1.9	2.5	3.1	3.8	4.4	5	5.6	6.2	6.9	7.5	9.8		
mW 7/7-2-s1r..		0.78	1.6	2.4	3.1	3.9	4.7	5.5	6.3	7	7.8	8.6	9.4	9.8		
mW 7/10-2-s1r..		1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.8	9.9	11	12.1	13.2	13.2		
mW 8.3/3-2-s3r..		0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.7	4.2	4.7					
mW 8.3/4-2-s3r..		0.71	1.4	2.1	2.8	3.5	4.2	5	5.7	6.4	7.1					
mW 8.3/5-2-s3r..		0.93	1.9	2.8	3.7	4.6	5.6	6.5	7.4	8.4	9.3					
mW 8.3/7-2-s3r..		1.4	2.9	4.3	5.7	7.2	8.6	10	11.4	12.9	14.3					
mW 8.3/9-2-s3r..		1.9	3.8	5.7	7.6	9.4	11.3	13.2	15.1	17	18					
mW 9/4-2-s2r..		0.89	1.8	2.7	3.6	4.4	5.3	6.2	7.1	8	8.9					
mW 9/6-2-s2r..		1.5	3	4.5	6	7.5	9	10.5	12	13.5	14.9					
mW 9/8-2-s2r..		2.1	4.1	6.2	8.2	10.3	12.3	14.4	16.4	18.5	21					
mW 9/10-2-s2r..		2.6	5.2	7.8	10.5	13.1	15.7	18.3	21	24	26					
mW 10.6/5-2-s2r..		1.6	3.2	4.8	6.4	8	9.3	10.6	11.9							
mW 10.6/8-2-s2r..		2.9	5.8	8.7	11.6	14.5	17	19.4	22							
mW 10.6/10-2-s2r..		3.7	7.4	11.1	14.9	18.6	22	25	28							
mW 10.6/12-2-s2r..		4.6	9.2	13.8	18.3	23	27	31	34							
mW 13.5/10-2-s2r..		5.8	12.1	18.1	24	29	33	28								
mW 13.5/11-2-s2r..		6.3	12.9	19.8	27	32	36	31								
mW 15/7.5-2-s1r..		5.6	11.2	16.8	22	28	28									
mW 15/9-2-s1r..		7	14	21	28	35	35									
mW 15/12-2-s1r..		10	20	30	40	50	50									
mW 15/15-2-s1r..		12.8	26	38	51	64	64									
mW 15/22-2-s1r..		20	40	60	80	100	100									

Dimension sheet

Sketch



Main dimensions all dimensions in mm Typ (D1/LFe in cm)	Stator			Rotor						
	Outer diameter D1	Length of winding head		Bore				Ring length		
		W1	W2	d3 min		d3 max		h		
	with PTC		Al	Cu	Al	Cu	Al	Cu	CuSt	
mW 6/ .. -2-s2r..	60.2	20	17	-	20.5	-	21	-	4	10
mW 7/ .. -2-s1r..	70.2	21	15	-	21.5	-	24	-	4	12
mW 8.3/ .. -2-s3r..	83	25	22	-	26	-	30	-	6	14
mW 9/ .. -2-s2r..	90	29	25	-	26	-	34	-	6	14
mW 10.6/ .. -2-s2r..	106.5	40	32	-	32.5	-	40	-	6	14
mW 13.5/ .. -2-s2r..	135	42	38	-	42.5	-	48	-	8	16
mW 15/ .. -2-s1r..	150	46	36	-	40.5	-	52	-	8	16