

Asynchron-Elan types 4-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	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	
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 7/2.5-4-s2r..		0.24	0.48	0.72	0.97	1.2	1.4	1.7	1.9	2.2	2.4	2.7	2.9	2.8	2.7	2.7	
mW 7/5-4-s2r..		0.53	1.1	1.6	2.1	2.7	3.2	3.7	4.3	4.8	5.3	5.9	6.4	6.3	6.2	6	
mW 7/6-4-s2r..		0.64	1.3	1.9	2.6	3.2	3.8	4.5	5.1	5.8	6.4	7.1	7.7	7.5	7.2	7	
mW 7/7-4-s2r..		0.75	1.5	2.2	3	3.8	4.5	5.2	6	6.8	7.5	8.2	9	8.8	8.6	8.4	
mW 7/10-4-s2r..		1	2	3	4	5	6	7	8	9	10	11	12	11.7	11.5	11.2	
mW 9/4-4-s1r..		0.64	1.3	1.9	2.6	3.2	3.9	4.5	5.1	5.8	6.4	7.1	7.7	8.4	9	9	
mW 9/6-4-s1r..		1.1	2.1	3.2	4.3	5.4	6.4	7.5	8.6	9.6	10.7	11.8	12.9	13.9	15	15	
mW 9/8-4-s1r..		1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	21	
mW 9/10-4-s1r..		1.9	3.9	5.8	7.7	9.6	11.6	13.5	15.4	17.4	19.3	21	23	25	27	27	
mW 9/14-4-s1r..		2.5	5	7.5	10	12.5	15	17.5	20	22	25	28	30	32	35	35	
mW 10.6/4-4-s1r..		1	2.1	3.1	4.2	5.2	6.2	7.3	8.3	9.4	10.4	11.5	12.5				
mW 10.6/6-4-s1r..		1.7	3.3	5	6.7	8.3	10	11.7	13.3	15	16.7	18.3	20	20			
mW 10.6/8-4-s1r..		2.4	4.8	7.2	9.7	12.1	14.5	16.9	19.3	22	24	27	29	29			
mW 10.6/10-4-s1r..		3.2	6.3	9.5	12.7	15.8	19	22	25	28	32	35	38	38			
mW 10.6/11-4-s1r..		3.4	6.8	10.2	13.7	17.1	20	24	27	31	34	38	41	41			
mW 10.6/12-4-s1r..		3.8	7.5	11.2	15	18.8	22	26	30	34	38	41	45	45			
mW 10.6/15-4-s1r..		4.7	9.3	14	18.7	23	28	33	37	42	47	51	56	56			
mW 12/4-4-s2r..		1.1	2.2	3.4	4.5	5.6	6.8	7.9	9	10.1	11.2	12.4	13.5	13.5			
mW 12/6-4-s2r..		2.2	4.3	6.5	8.7	10.8	13	15.2	17.3	19.5	22	24	26	26			
mW 12/9-4-s2r..		3.8	7.5	11.2	15	18.8	22	26	30	34	38	41	45	45			
mW 12/12-4-s2r..		5	10	15	20	25	30	35	40	45	50	55	60	60			
mW 12/15-4-s2r..		6.2	12.5	18.8	25	31	38	44	50	56	62	69	75	75			
mW 13/5-4-s1r..		1.8	3.6	5.4	7.2	9	10.8	12.6	14.4	16.2	18	18	18	18			
mW 13/9-4-s1r..		4	8	12	16	20	24	28	32	36	40	40	40	40			
mW 13/10-4-s1r..		4.5	9	13.5	18	22	27	31	36	40	45	45	45	45			
mW 13/12.5-4-s1r..		5.6	11.2	16.8	22	28	34	39	45	50	56	56	56	56			
mW 13/15.5-4-s1r..		7	14	21	28	35	42	49	56	63	70	70	70	70			
mW 13/17.5-4-s1r..		8	16	24	32	40	48	56	64	72	80	80	80	80			
mW 13/25-4-s1r..		11	22	33	44	55	66	77	88	99	110	110	110	110			
mW 13.5/5-4-s1r..		2.4	4.8	7.2	9.6	12	14.4	16.8	19.2	22	24	24	24	24			
mW 13.5/7-4-s1r..		3.7	7.4	11.1	14.8	18.5	22	26	30	33	37	37	37	37			
mW 13.5/9-4-s1r..		5.2	10.4	15.6	21	26	31	36	42	47	52	52	52	52			
mW 13.5/10-4-s1r..		5.8	11.6	17.4	23	29	35	41	46	52	58	58	58	58			
mW 13.5/11-4-s1r..		6.4	12.8	19.2	26	32	38	45	51	58	64	64	64	64			
mW 13.5/12.5-4-s1r..		7.3	14.6	22	29	36	44	51	58	66	73	73	73	73			
mW 13.5/15.5-4-s1r..		9	18	27	36	45	54	63	72	81	90	90	89	89			
mW 13.5/17.5-4-s1r..		9.9	19.9	30	40	50	60	70	79	89	99	99	99	99			
mW 13.5/20-4-s1r..		10.6	21	32	42	53	64	74	85	95	106	105	105	104			
mW 13.5/25-4-s1r..		11.9	24	36	48	60	71	83	95	107	119	117	116	114			
mW 15/10-4-s2r..		7	14	21	28	35	42	49	56	63	70						
mW 15/12-4-s2r..		8.6	17.2	26	34	43	52	60	69	77	86						
mW 15/15-4-s2r..		10.5	21	32	42	52	63	74	84	94	105						
mW 15/22-4-s2r..		17	33	49	65	82	98	114	130	130	129						

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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 20/7-4-s2r..		10.9	22	33	44	55	62	55	49							
mW 20/11-4-s2r..		17.8	36	54	71	89	99	90	81							
mW 20/16-4-s2r..		27	54	80	107	134	149	133	118							
mW 20/18-4-s2r..		30	60	89	119	149	169	149	129							

Dimension sheet

Sketch



Main dimensions all dimensions in mm	Stator				Rotor						
	Outer diameter D1	Length of winding head		Bore				Ring length			
		W1	W2	d3 min		d3 max		h			
	Typ (D1/LFe in cm)	with PTC		Al	Cu	Al	Cu	Al	Cu	CuSt	
mW 7/ .. -4-s2r..	70.2	19	17	-	21.5	-	24	-	4	12	
mW 9/ .. -4-s1r..	90	26	22	-	31.5	-	37	-	4	12	
mW 10.6/ .. -4-s1r..	106.5	34	26	-	44.5	-	46	-	4	12	
mW 12/ .. -4-s2r..	120	36	28	-	42.5	-	50	-	-	14	
mW 13/ .. -4-s1r..	130	38	30	-	47	-	58	-	6	14	
mW 13.5/ .. -4-s1r..	135	34	24	-	47	-	56	-	6	14	
mW 15/ .. -4-s2r..	150	40	34	-	63.5	-	65	-	8	16	
mW 20/ .. -4-s2r..	200	50	34	-	80	-	85	-	10	18	