

Asynchron-Standard 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 3.7/2-2-s1r..					0.11	0.14	0.17	0.2	0.22	0.25	0.28	0.31	0.34	0.36	0.39	0.42
mW 3.7/3-2-s1r..				0.14	0.19	0.23	0.28	0.33	0.38	0.42	0.47	0.52	0.57	0.61	0.66	0.71
mW 4/2-2-s1r..					0.13	0.16	0.19	0.22	0.25	0.28	0.31	0.34	0.38	0.41	0.44	0.47
mW 4/3-2-s1r..			0.12	0.17	0.23	0.29	0.35	0.41	0.46	0.52	0.58	0.64	0.7	0.75	0.81	0.87
mW 4/4-2-s1r..			0.18	0.26	0.35	0.44	0.53	0.62	0.7	0.79	0.88	0.97	1.1	1.1	1.2	1.3
mW 4/5-2-s1r..		0.12	0.23	0.35	0.47	0.58	0.7	0.82	0.93	1	1.2	1.3	1.4	1.5	1.6	1.8
mW 4/6-2-s1r..		0.15	0.29	0.44	0.59	0.73	0.88	1	1.2	1.3	1.5	1.6	1.8	1.9	2.1	2.2
mW 4.5/2.5-2-s1r..			0.12	0.18	0.24	0.3	0.36	0.42	0.48	0.54	0.6	0.66	0.72	0.78	0.84	0.9
mW 4.8/1.5-2-s1r..					0.11	0.14	0.17	0.19	0.22	0.24	0.26	0.28	0.3	0.33	0.35	0.37
mW 4.8/2.5-2-s1r..			0.13	0.2	0.27	0.33	0.4	0.47	0.53	0.6	0.67	0.73	0.8	0.87	0.93	1
mW 4.8/3-2-s1r..			0.16	0.24	0.32	0.4	0.48	0.56	0.64	0.72	0.8	0.88	0.96	1	1.1	1.2
mW 4.8/4-2-s1r..		0.11	0.23	0.34	0.45	0.57	0.68	0.79	0.91	1	1.1	1.2	1.4	1.5	1.6	1.7
mW 4.8/5-2-s1r..		0.15	0.29	0.44	0.59	0.73	0.88	1	1.2	1.3	1.5	1.6	1.8	1.9	2.1	2.2
mW 4.8/6-2-s1r..		0.17	0.35	0.52	0.69	0.87	1	1.2	1.4	1.6	1.7	1.9	2.1	2.3	2.4	2.6
mW 4.8/3-2-s2r..			0.19	0.29	0.39	0.48	0.58	0.68	0.77	0.87	0.96	1.1	1.2	1.3	1.4	
mW 4.8/4-2-s2r..		0.13	0.26	0.39	0.51	0.64	0.77	0.9	1	1.2	1.3	1.4	1.5	1.7	1.8	
mW 4.8/5-2-s2r..		0.16	0.33	0.49	0.66	0.82	0.99	1.2	1.3	1.5	1.6	1.8	2	2.1	2.3	
mW 4.8/6-2-s2r..		0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	
mW 5.4/1.5-2-s1r..				0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.49	0.54	0.59	0.64		
mW 5.4/2.5-2-s1r..			0.18	0.27	0.36	0.45	0.54	0.63	0.72	0.81	0.9	0.99	1.1	1.2		
mW 5.4/3-2-s1r..		0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.97	1.1	1.2	1.3	1.4	1.6		
mW 5.4/4.5-2-s1r..		0.19	0.37	0.56	0.74	0.93	1.1	1.3	1.5	1.7	1.9	2	2.2	2.4		
mW 5.4/6-2-s1r..		0.26	0.52	0.78	1	1.3	1.6	1.8	2.1	2.3	2.6	2.9	3.1	3.4		
mW 5.4/4.5-2-s2r..		0.22	0.45	0.68	0.9	1.1	1.4	1.6	1.8	1.6	1.4					
mW 5.4/7-2-s2r..		0.38	0.75	1.1	1.5	1.9	2.2	2.6	3	2.6	2.3					
mW 5.4/4.5-2-s3r..		0.23	0.46	0.7	0.93	1.2	1.4	1.6	1.8	2	2.3	2.5	2.7	2.5	2.3	2.1
mW 5.4/7-2-s3r..		0.39	0.78	1.2	1.6	2	2.3	2.7	3.1	3.5	3.9	4.3	4.7	4.4	4	3.7
mW 6/3-2-s1r..		0.16	0.32	0.48	0.64	0.8	0.96	1.1	1.3	1.4	1.6	1.8	1.9			
mW 6/4.5-2-s1r..		0.23	0.47	0.7	0.93	1.2	1.4	1.6	1.9	2.1	2.3	2.6	2.8			
mW 6/6-2-s1r..		0.33	0.66	0.98	1.3	1.6	2	2.3	2.6	3	3.3	3.6	3.9			
mW 6/8-2-s1r..		0.45	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4	4.5	4.9	5.4			
mW 7/2-2-s1r..		0.15	0.3	0.45	0.6	0.75	0.9	1	1.2	1.4	1.5					
mW 7/3-2-s1r..		0.24	0.48	0.72	0.96	1.2	1.4	1.7	1.9	2.2	2.4					
mW 7/4-2-s1r..		0.35	0.7	1	1.4	1.8	2.1	2.4	2.8	3.2	3.5					
mW 7/5-2-s1r..		0.46	0.92	1.4	1.8	2.3	2.8	3.2	3.7	4.1	4.6					
mW 7/6-2-s1r..		0.58	1.2	1.8	2.3	2.9	3.5	4.1	4.7	5.3	5.8					
mW 7/7-2-s1r..		0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7					
mW 7/10-2-s1r..		1	2	3	4	5	6	7	8	9	10					
mW 8.3/3-2-s1r..		0.31	0.62	0.94	1.2	1.6	1.9	2.2	2.5							
mW 8.3/5-2-s1r..		0.71	1.4	2.1	2.9	3.6	4.3	5	5.7							
mW 8.3/6-2-s1r..		0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2							

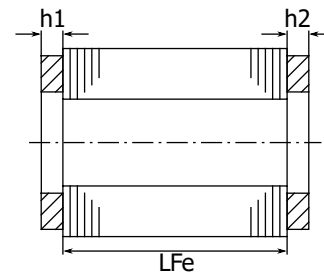
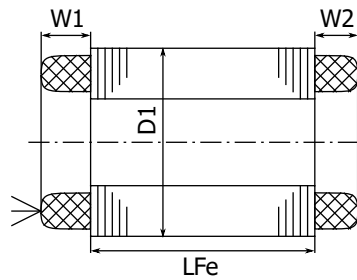


Speed	in krpm	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90
Frequency	in Hz	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
Types (D1/LFe in cm)		Power in kW														
mW 8.3/7-2-s2r..		1.1	2.1	3.2	4.2	5.3	6.3	7.4	8.4							
mW 8.3/9-2-s2r..		1.4	2.9	4.3	5.7	7.2	8.6	10	11.5							
mW 8.5/5-2-s1r..		0.71	1.4	2.1	2.9	3.6	4.3	5								
mW 8.5/7.5-2-s1r..		1.1	2.3	3.4	4.6	5.7	6.9	8								
mW 8.5/9-2-s1r..		1.4	2.9	4.3	5.7	7.1	8.6	10								
mW 9/4-2-s1r..		0.71	1.4	2.1	2.9	3.6	4.3	5								
mW 9/6-2-s1r..		1.1	2.2	3.4	4.5	5.6	6.7	7.8								
mW 9/8-2-s1r..		1.6	3.1	4.7	6.2	7.8	9.3	10.9								
mW 9/10-2-s1r..		2.1	4.1	6.2	8.2	10.3	12.3	14.4								
mW 10.6/5-2-s1r..		1.3	2.7	4	5	6.1	7.1									
mW 10.6/8-2-s1r..		2.4	4.9	7.3	8.9	10.5	12.1									
mW 10.6/10-2-s1r..		3.2	6.3	9.5	11.5	13.5	15.5									
mW 10.6/12-2-s1r..		3.9	7.8	11.8	14.2	16.6	19									
mW 12/6-2-s1r..		2.5	5	7.5	10	12										
mW 12/9-2-s1r..		4	8	12	15	18										
mW 12/12.5-2-s1r..		6	12	18	22	26										
mW 13.5/11-2-s1r..		6.5	13	19	24	28										



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 3.7/ .. -2-s1r..	37.3	10	9.5	-	10	-	10.5	-	-	5
mW 4/ .. -2-s1r..	40.2	12	10	9.5	10	11.5	11.5	6	4	4.1
mW 4.5/ .. -2-s1r..	45.2	12	10	9.5	-	12	-	4	-	-
mW 4.8/ .. -2-s2r..	48.2	16	13	19	-	21	-	5.5	-	-
mW 4.8/ .. -2-s1r..	48.2	15	12	13.5	18.5	15	19	6	4	8
mW 5.4/ .. -2-s2r..	54.2	18	14	-	19.5	-	20	-	4	-
mW 5.4/ .. -2-s3r..	54.2	16	14	-	19.5	-	20	-	4	8
mW 5.4/ .. -2-s1r..	55	17	15	11	-	17	-	5	-	-
mW 6/ .. -2-s1r..	60.2	16	14	10.5	-	15.5	-	7	-	-
mW 7/ .. -2-s1r..	70.2	21	15	20.5	-	22	-	7.5	-	-
mW 8.3/ .. -2-s1r..	83.35	25	22	23	26	25	28	8.5	6	14
mW 8.3/ .. -2-s2r..	83.35	25	22	23	26	25	28	8.5	6	14
mW 8.5/ .. -2-s1r..	85.4	25	23	21	26	27	28	8.5	6	14
mW 9/ .. -2-s1r..	90	29	25	23	26	32	34	10	6	14
mW 10.6/ .. -2-s1r..	106.5	40	32	32.5	-	35	-	8	-	-
mW 12/ .. -2-s1r..	120	40	35	32	36.5	40	44	20	8	-
mW 13.5/ .. -2-s1r..	135	40	34	37	-	44	-	20	-	-