

Asynchron-Standard 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 6/3-4-s1r..		0.11	0.21	0.32	0.43	0.53	0.64	0.75	0.85	0.96	1.1	1.2	1.3	1.4	1.5	1.6
mW 6/4.5-4-s1r..		0.17	0.33	0.5	0.67	0.83	1	1.2	1.3	1.5	1.7	1.8	2	2.2	2.3	2.5
mW 6/6-4-s1r..		0.24	0.48	0.72	0.96	1.2	1.4	1.7	1.9	2.2	2.4	2.6	2.9	3.1	3.4	3.6
mW 6/8-4-s1r..		0.33	0.67	1	1.3	1.7	2	2.3	2.7	3	3.3	3.7	4	4.3	4.7	5
mW 6/3-4-s2r..		0.15	0.31	0.46	0.62	0.77	0.92	1.1	1.2	1.4	1.5	1.7	1.8	2	2.2	2.3
mW 6/4.5-4-s2r..		0.25	0.49	0.74	0.99	1.2	1.5	1.7	2	2.2	2.5	2.7	3	3.2	3.5	3.7
mW 6/6-4-s2r..		0.32	0.65	0.97	1.3	1.6	1.9	2.3	2.6	2.9	3.2	3.6	3.9	4.2	4.5	4.9
mW 6/8-4-s2r..		0.45	0.89	1.3	1.8	2.2	2.7	3.1	3.6	4	4.5	4.9	5.4	5.8	6.3	6.7
mW 6.5/8-4-s1r..		0.46	0.92	1.4	1.8	2.3	2.8	3.2	3.7	4.1	4.6	5	5.5			
mW 7/3-4-s1r..		0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.3	2.1	2
mW 7/4-4-s1r..		0.28	0.57	0.85	1.1	1.4	1.7	2	2.3	2.6	2.8	3.1	3.4	3.2	3	2.8
mW 7/5-4-s1r..		0.37	0.73	1.1	1.5	1.8	2.2	2.6	2.9	3.3	3.7	4	4.4	4.2	4	3.8
mW 7/6-4-s1r..		0.46	0.91	1.4	1.8	2.3	2.7	3.2	3.6	4.1	4.6	5	5.5	5.1	4.8	4.5
mW 7/7-4-s1r..		0.52	1	1.6	2.1	2.6	3.2	3.7	4.2	4.7	5.2	5.8	6.3	6	5.8	5.5
mW 7/10-4-s1r..		0.74	1.5	2.2	3	3.7	4.4	5.2	5.9	6.7	7.4	8.2	8.9	8.6	8.3	8
mW 7/12-4-s1r..		0.89	1.8	2.7	3.6	4.5	5.3	6.2	7.1	8	8.9	9.8	10.7	10.2	9.7	9.2
mW 8/4-4-s1r..		0.49	0.98	1.5	2	2.4	2.8	3.3	3.7	4.2	4.6	5	5.5			
mW 8/6-4-s1r..		0.75	1.5	2.2	3	3.7	4.3	5	5.6	6.3	7	7.6	8.3			
mW 8/9-4-s1r..		1.2	2.5	3.8	5	6.1	7.2	8.2	9.3	10.4	11.4	12.5	13.6			
mW 8/11-4-s1r..		1.5	3	4.5	6	7.3	8.6	9.8	11.1	12.4	13.6	14.9	16.2			
mW 8/15-4-s1r..		2	3.9	5.8	7.8	9.6	11.4	13.1	14.9	16.7	18.4	20	22			
mW 8/20-4-s1r..		2.7	5.3	8	10.7	13.1	15.5	17.9	20	23	25	28	30			
mW 8.3/2-4-s1r..		0.2	0.4	0.6	0.8	1	1.2	1.3	1.4	1.6	1.7	1.6	1.5	1.3		
mW 8.3/3-4-s1r..		0.29	0.58	0.88	1.2	1.5	1.8	1.9	2.1	2.3	2.5	2.4	2.3	2.2		
mW 8.3/4-4-s1r..		0.44	0.88	1.3	1.8	2.2	2.6	2.9	3.2	3.5	3.8	3.6	3.5	3.4		
mW 8.3/5-4-s1r..		0.55	1.1	1.6	2.2	2.7	3.3	3.7	4.1	4.5	4.9	4.7	4.5	4.3		
mW 8.3/6-4-s1r..		0.71	1.4	2.1	2.8	3.5	4.2	4.7	5.1	5.5	6	5.8	5.7	5.5		
mW 8.3/7-4-s1r..		0.82	1.6	2.4	3.3	4.1	4.9	5.4	5.9	6.5	7	6.7	6.4	6.2		
mW 8.3/9-4-s1r..		1.1	2.2	3.3	4.4	5.5	6.6	7.2	7.8	8.4	9	8.7	8.4	8.1		
mW 8.5/6-4-s1r..		0.68	1.4	2.1	2.7	3.4	4.1	4.8	5.5	6.2	6.8	6.5	6.1	5.7	5.4	5
mW 8.5/8-4-s1r..		0.99	2	3	4	5	6	7	7.9	8.9	9.9	9.4	8.8	8.3	7.7	7.2
mW 8.5/11-4-s1r..		1.4	2.7	4.1	5.5	6.8	8.2	9.6	10.9	12.3	13.6	12.9	12.2	11.5	10.7	10
mW 8.5/12-4-s1r..		1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	14.2	13.4	12.5	11.7	10.9
mW 9/6-4-s1r..		1	2	3	4	5	6	7	8	9	10	10	10	10	10	10
mW 9/8-4-s1r..		1.3	2.6	4	5.3	6.6	7.9	9.2	10.6	11.9	13.2	13.2	13.2	13.2	13.2	13.2
mW 9/10-4-s1r..		1.6	3.3	5	6.6	8.2	9.9	11.6	13.2	14.8	16.5	16.5	16.5	16.5	16.5	16.5
mW 9/14-4-s1r..		2.5	5	7.5	10	12.5	14.6	16.7	18.8	21	23	23	23	23	23	23
mW 10.6/4-4-s1r..		0.8	1.6	2.3	3.1	3.8	4.5	5.3	6	5.4	4.7	4.1	3.4			
mW 10.6/6-4-s1r..		1.4	2.7	3.9	5.1	6.4	7.6	8.8	10	8.9	7.9	6.8	5.7			
mW 10.6/8-4-s1r..		1.9	3.8	5.4	7	8.6	10.3	11.9	13.5	11.9	10.3	8.7	7.1			
mW 10.6/10-4-s1r..		2.4	4.8	7	9.2	11.4	13.6	15.8	18	15.9	13.7	11.6	9.4			
mW 10.6/11-4-s1r..		2.7	5.4	7.8	10.3	12.7	15.1	17.6	20	17.6	15.3	12.9	10.6			

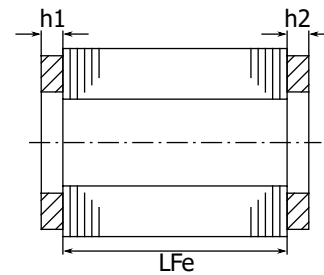
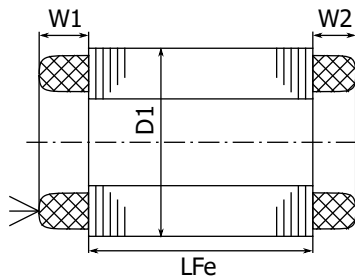


Speed	in krpm	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45
Frequency	in Hz	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
Types (D1/LFe in cm)		Power in kW														
mW 10.6/12-4-s1r..		3	6	8.7	11.3	14	16.7	19.3	22	19.3	16.6	14	11.3			
mW 10.6/15-4-s1r..		3.8	7.6	10.9	14.2	17.6	21	24	28	24	20	17	13.5			
mW 11.4/5-4-s1r..		1.4	2.8	4.2	5.6	7	8.3	9.6	11	9.7						
mW 11.4/7-4-s1r..		2	4.1	6.2	8.2	10	11.8	13.7	15.5	13.8						
mW 11.4/9-4-s1r..		2.6	5.2	7.9	10.5	12.9	15.2	17.6	20	17.8						
mW 11.4/12-4-s1r..		3.6	7.2	10.9	14.5	17.5	20	24	26	24						
mW 11.4/15-4-s1r..		4.5	9	13.5	18	22	26	29	33	29						
mW 12/6-4-s1r..		2	4	6	8	9	10	8.8	7.7	6.5						
mW 12/9-4-s1r..		3	6	9	12	13.8	15.5	13.8	12.2	10.5						
mW 12/12-4-s1r..		4.5	9	13.5	18	20	22	19.8	17.7	15.5						
mW 13/5-4-s1r..		1.7	3.4	5.1	6.8	8.5	10.2	11.9	13.6	15.3	17					
mW 13/9-4-s1r..		3.6	7.2	10.8	14.4	18	22	25	29	32	36					
mW 13/10-4-s1r..		4	8	12	16	20	24	28	32	36	40					
mW 13/12.5-4-s1r..		5	10	15	20	25	30	35	40	45	50					
mW 13/15.5-4-s1r..		6.3	12.6	18.9	25	32	38	44	50	57	63					
mW 13/17.5-4-s1r..		7.2	14.4	22	29	36	43	50	58	65	72					
mW 13.5/5-4-s1r..		2.2	4.4	6.6	8.8	11	13.2	15.4	17.6	19.8	22					
mW 13.5/7-4-s1r..		3.5	7	10.5	14	17.5	21	24	28	32	35					
mW 13.5/9-4-s1r..		4.8	9.6	14.4	19.2	24	29	34	38	43	48					
mW 13.5/10-4-s1r..		5.4	10.8	16.2	22	27	32	38	43	49	54					
mW 13.5/11-4-s1r..		6	12	18	24	30	36	42	48	54	60					
mW 13.5/12.5-4-s1r..		6.7	13.4	20	27	34	40	47	54	60	67					
mW 13.5/15.5-4-s1r..		8.3	16.6	25	33	42	50	58	66	75	83					
mW 13.5/17.5-4-s1r..		9.4	18.7	28	37	47	56	65	75	84	94					
mW 14/10-4-s1r..		6.5	13	19.5	25	30	27	23	20							
mW 14/13-4-s1r..		8.7	17.3	26	33	40	36	31	26							
mW 15/5-4-s1r..		3.5	7	9.5	12	10.5										
mW 15/7-4-s1r..		5.2	10.5	14.2	18	15										
mW 15/9-4-s1r..		7	14	19	24	21										
mW 15/10-4-s1r..		8	16	22	27	24										
mW 15/12-4-s1r..		10	20	27	34	29										
mW 15/15-4-s1r..		12	24	33	42	36										
mW 15/22-4-s1r..		18	36	49	62	53										
mW 16/8-4-s1r..		7	14	21	26	30	25									
mW 16/11-4-s1r..		10	20	30	38	43	36									
mW 16/15-4-s1r..		14	28	42	53	60	50									
mW 16/20-4-s1r..		19	38	57	72	81	68									
mW 16/26-4-s1r..		25	50	75	95	105	88									
mW 17/5-4-s1r..		4.6	9.2	13.1	17.1	21	18									
mW 17/7-4-s1r..		7	14	19.7	25	31	27									
mW 17/10-4-s1r..		11	22	31	39	48	42									
mW 17/12-4-s1r..		14	28	35	41	48	52									
mW 17/15-4-s1r..		17	34	47	59	72	62									
mW 17/18-4-s1r..		21	42	57	71	86	76									
mW 17/20-4-s1r..		24	48	64	79	95	85									
mW 17/22-4-s1r..		26	52	69	87	104	93									
mW 17/25-4-s1r..		30	60	80	100	120	105									
mW 17/30-4-s1r..		36	72	96	120	144	126									
mW 17/40-4-s1r..		48	96	128	160	192	168									
mW 17/5-4-s1r..		4.6	9.2	13.1	17.1	21	18									
mW 17/7-4-s1r..		7	14	19.7	25	31	27									
mW 17/10-4-s1r..		11	22	31	39	48	42									
mW 17/12-4-s1r..		14	28	35	41	48	52									
mW 17/15-4-s1r..		17	34	47	59	72	62									
mW 17/18-4-s1r..		21	42	57	71	86	76									
mW 17/20-4-s1r..		24	48	64	79	95	85									
mW 17/25-4-s1r..		30	60	80	100	120	105									

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 17/10-4-s2r..	9.8	19.7	30	39	49	59										
mW 17/15-4-s2r..	15.2	30	46	61	76	91										
mW 17/18-4-s2r..	18.7	37	56	75	93	112										
mW 17/20-4-s2r..	21	42	63	84	105	126										
mW 17/25-4-s2r..	26	52	78	105	131	157										
mW 18/8-4-s1r..	9	18	26	34	28											
mW 18/11-4-s1r..	13.5	27	38	50	42											
mW 18/15-4-s1r..	19	38	52	67	57											
mW 18/20-4-s1r..	26	52	73	93	78											
mW 18/26-4-s1r..	34	67	92	116	99											
mW 20/7-4-s1r..	11	22	33	33												
mW 20/11-4-s1r..	18	30	42	54												
mW 20/13-4-s1r..	21	43	64	64												
mW 20/16-4-s1r..	27	54	81	81												
mW 20/18-4-s1r..	30	60	90	90												
mW 20/21-4-s1r..	35	70	105	105												
mW 20/26-4-s1r..	45	90	135	135												
mW 20/30-4-s1r..	52	103	155	155												
mW 20/36-4-s1r..	60	120	180	180												
mW 24/12-4-s1r..	28	54	74	66												
mW 24/15-4-s1r..	36	72	100	88												
mW 24/20-4-s1r..	50	95	135	118												
mW 24/25-4-s1r..	64	125	170	150												
mW 24/30-4-s1r..	77	150	205	180												

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 with PTC	W2	d3 min		d3 max		h		
				Al	Cu	Al	Cu	Al	Cu	CuSt
mW 6/ .. -4-s2r..	60.2	20	17	16.5	21.5	25	25	6.5	4	-
mW 6/ .. -4-s1r..	60.2	18	16	10.5	-	17.1	-	7	-	-
mW 6.5/ .. -4-s1r..	65	18	16	19.5	-	21	-	5.5	-	-
mW 7/ .. -4-s1r..	70.2	21	18	18.5	-	20	-	7.5	-	-
mW 8/ .. -4-s1r..	80	24	20	23.5	33	30	34	9	4	12
mW 8.3/ .. -4-s1r..	83	23	19	23.5	33	30	34	9	4	12
mW 8.5/ .. -4-s1r..	85.4	23	21	25	31	33	39	10	4	12
mW 9/ .. -4-s1r..	90	26	22	26.5	-	33	-	10	-	-
mW 11.4/ .. -4-s1r..	114.08	30	25	-	44.5	-	46	-	6	14
mW 12/ .. -4-s1r..	120	35	32	25.5	44.5	35	46	15.5	6	14
mW 13/ .. -4-s1r..	130	38	24	40	-	56	-	18.5	-	-
mW 13.5/ .. -4-s1r..	135	40	30	40	-	52	-	18.5	-	-
mW 14/ .. -4-s1r..	140	34	30	-	54	-	54	-	6	14
mW 15/ .. -4-s1r..	150	38	34	38	47	42	56	13	8	16
mW 16/ .. -4-s1r..	160	43	34	-	63.5	-	70	-	8	16
mW 17/ .. -4-s1r..	170	44	37	59.5	71.5	66	77	12	8	16
mW 17/ .. -4-s2r..	170	44	37	-	71.5	-	77	-	8	16
mW 18/ .. -4-s1r..	180	47	40	-	74	-	80	-	10	18
mW 20/ .. -4-s1r..	200	48	37	63.5	83.5	70	88	17	10	18
mW 24/ .. -4-s1r..	240	59	47	68.5	99	80	110	20	12	20