

# Asynchron-Standard types 6-pole

17/01/2024

## Power

Continuous power for efficient water cooling

The peak power is considerably higher.

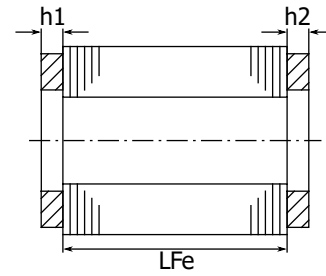
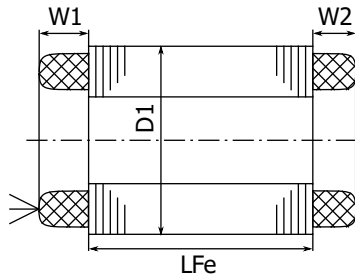
## Rotor

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	1	2	4	6	8	10	12	14	16	18	20	22	24	26	28
Frequency	in Hz	50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
Types (D1/LFe in cm)		Power in kW														
mW 8.5/11-6-s1r..		0.54	1.1	2.1	3.2	4.3	5.3	6.4	7.5	8.6	9.6	10.7	10.1	9.4	8.8	8.2
mW 8.5/12-6-s1r..		0.59	1.2	2.3	3.5	4.7	5.9	7	8.2	9.4	10.5	11.7	11	10.3	9.6	8.9
mW 10.6/5-6-s1r..		0.5	1	2	3	4	5	6	7	8	9	10	9.2	8.5	7.8	7
mW 10.6/5-6-s1r..		0.55	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.8	9.9	11	10.2	9.4	8.5	7.7
mW 10.6/8-6-s1r..		0.92	1.8	3.7	5.5	7.4	9.2	11	12.9	14.7	16.6	18.4	17	15.7	14.4	13
mW 10.6/8-6-s1r..		1	2	4	6.1	8.1	10.1	12.1	14.1	16.2	18.2	20	18.7	17.2	15.8	14.3
mW 10.6/10-6-s1r..		1.2	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2	22	24	22	20	18.8	17
mW 10.6/10-6-s1r..		1.3	2.6	5.3	7.9	10.6	13.2	15.8	18.5	21	24	26	24	23	21	18.7
mW 10.6/14-6-s1r..		1.9	3.9	7.7	11.6	15.4	19.2	23	27	31	35	38	36	33	30	27
mW 10.6/14-6-s1r..		1.8	3.5	7	10.5	14	17.5	21	25	28	32	35	32	30	27	24
mW 12/6-6-s1r..		0.86	1.7	3.4	5.1	6.9	8.6	10.3	12							
mW 12/10-6-s1r..		1.4	2.9	5.7	8.6	11.4	14.3	17.1	20							
mW 13.5/9-6-s1r..		1.8	3.7	7.3	11	14.7	18.3	22	19.2	16.5	14.7	12.8	11			
mW 13.5/12.5-6-s1r..		2.5	5	10	15	20	25	30	26	22	20	18.2	16			
mW 13.5/15.5-6-s1r..		3	6	12	18	24	30	36	32	28	25	23	20			
mW 15/5-6-s1r..		1.3	2.5	5	7.5	10	12.5	15	13.3	11.6	9.8	8.1	6.4			
mW 15/10-6-s1r..		2.8	5.5	11	16.5	22	27	33	29	26	22	18.6	15			
mW 15/12-6-s1r..		3.3	6.5	13	19.5	26	32	39	35	30	26	21	17			
mW 15/15-6-s1r..		4	8	16	24	32	40	48	43	37	32	26	21			
mW 15/18-6-s1r..		5	10	20	30	40	50	60	53	46	39	32	25			
mW 15/20-6-s1r..		5.4	10.8	22	32	43	54	65	58	50	43	35	28			
mW 15/18-6-s1r..		5	10	20	30	40	50	60	53	46	39					
mW 17/12-6-s1r..		4.4	8.8	17.6	26	35	44	37	31	24						
mW 17/15-6-s1r..		5.8	11.6	23	35	46	58	49	39	30						
mW 17/17-6-s1r..		6.5	13	26	39	52	65	55	44	34						
mW 17/20-6-s1r..		7.5	15	30	45	60	75	63	52	40						
mW 17/27-6-s1r..		10	20	40	60	80	100	84	68	52						
mW 24/10-6-s1r..		8.4	16.8	34	42	34	25									
mW 24/17-6-s1r..		15	30	60	75	60	45									
mW 24/21-6-s1r..		19	38	76	95	76	57									
mW 24/24-6-s1r..		21	42	84	105	84	63									
mW 24/28-6-s1r..		25	50	100	125	100	75									
mW 24/33-6-s1r..		29	59	118	147	117	88									
mW 24/42-6-s1r..		35	70	140	175	140	105									

# 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 8.5/ .. -6-s1r..	85.4	25	21	25	31	33	39	10	4	12
mW 10.6/ .. -6-s1r..	106.5	33	28	-	42.5	-	46	-	4	-
mW 12/ .. -6-s1r..	120	23	17	42.5	-	54	-	18.5	-	-
mW 13.5/ .. -6-s1r..	135	31	29	-	64	-	65	-	6	14
mW 15/ .. -6-s1r..	150	36	29	59	72.5	70	77	15	6	14
mW 17/ .. -6-s1r..	170	40	31	63.5	-	78	-	12	-	-
mW 24/ .. -6-s1r..	240	45	35	89.5	98.5	110	120	15	4	12