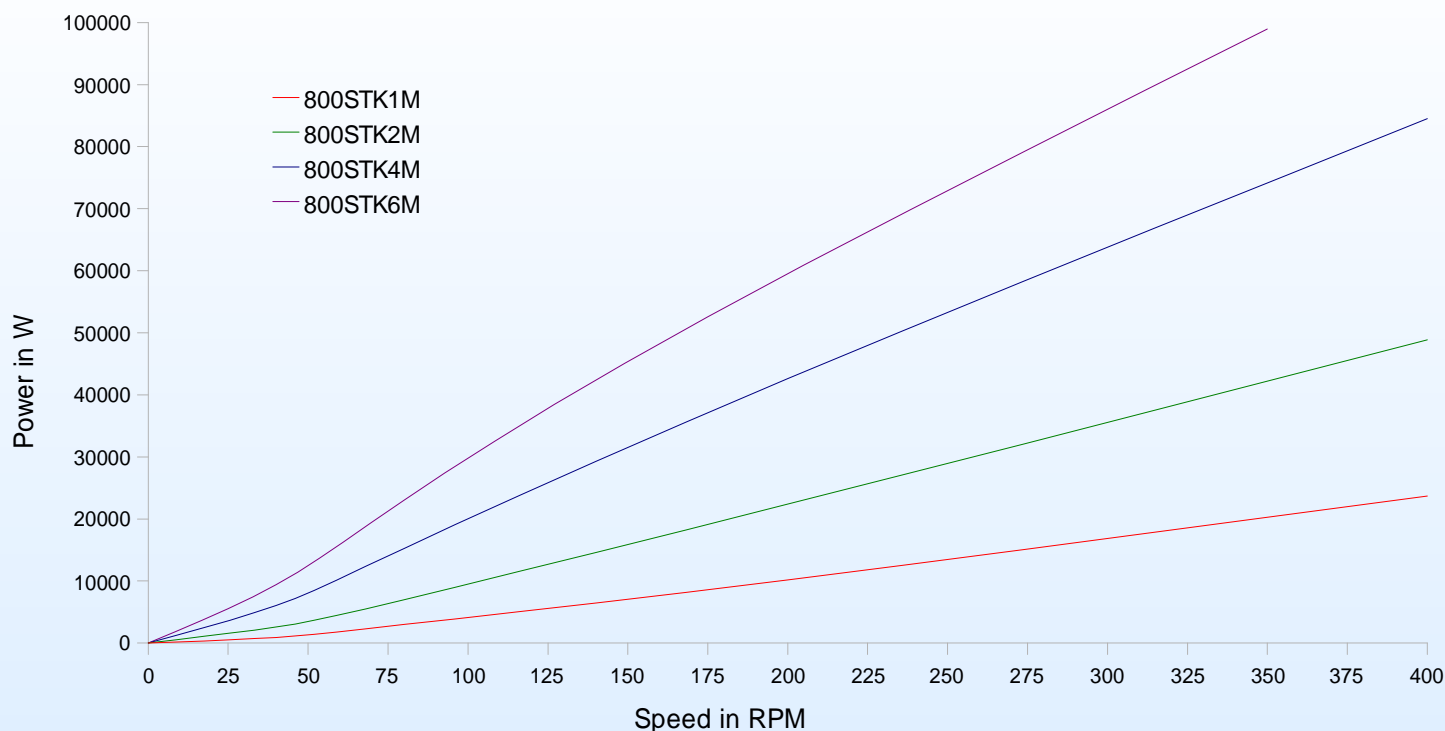


TECHNICAL CHARACTERISTICS

800 STK ALTERNATORS

		800STK1M		800STK2M		800STK4M		800STK6M			
Data for Rated speed	Rated speed	Rpm		80	400	80	400	80	400	80	350
	Rated power (1)(2)	W		2994	23712	6999	48860	15253	84509	23013	98974
	Input torque at rated speed(1)(2)	N.m		542	631	1048	1279	2194	2149	3253	2868
	Efficiency at rated power (1)(2)	%		65	88	80	91	83	94	84	94
	Current at rated power (1)	Amps		7,4	59,2	17.6	122.4	38.2	211.8	57.7	252
	Voltage at rated power (1)(2)(3)	V		133	133	133	133	133	133	133	133
Data for Half speed	Power at half speed (1)(2)	W		911	10183	2593	22389	6047	42600	9380	52600
	Input torque at half speed (1)(2)	N.m		365	586	1009	1068	2122	2230	3153	3297
	Efficiency at half speed (1)(2)	%		60	82	61	90	68	92	71	92
	Cogging torque	N.m		5.5		11.0		22.0		33.0	
	Phase resistance at 20°C	Ohm		7,2	0,17	1.59	0.06	0.55	0.02	0.31	0.01
	Phase inductance (5)	mH		39,2	0,95	14.28	0.56	6.97	0.23	4.63	0.19
	Phase voltage at no load (EMF) at 20°C (4)	V		222,0	173,0	187.9	185.3	185.5	167.4	184.4	161.8
	Rotor inertia	10 ⁻³ Kg.m ²		1270		2540		5080		7620	
	Weight	Kg		55		82		138		193	
	Power cable square section (6)	mm ²		4x1,5	4x10	4x2,5	4x25	4x6	4x70	4x10	4x95
	Power cable diameter	mm		Ø10,2	4xØ9,5	Ø11,4	4x Ø13,5	Ø15,9	4x Ø20,1	4xØ9,5	4x Ø22,6

Alternator 800STK Power - Speed



(1) Ambient temperature 40°C

Windflow 10 m/s cooling the housing

Winding temperature rise < 100°C

Stator housing in contact with the ambient air or integral on all its peripheral area with a metallic armature in contact with the ambient air

Stator housing secured on a metallic frame getting an area equal to twice the cross section of the housing

(2) Operation with unity power factor and sine wave voltage

(3) Single phase voltage; rated voltage is 230V ac phase to phase. Voltage level may be adapted according to the application

(4) Single phase voltage, Alternator at no load, rated speed and at 20°C; multiply by $\sqrt{3}$ (≈ 1.732) for phase to phase voltage at no load.

(5) For current at rated power

(6) For currents lower than 53 Amps, one cable

For currents over 53 Amps, four single wires output (highlighted in the table)