

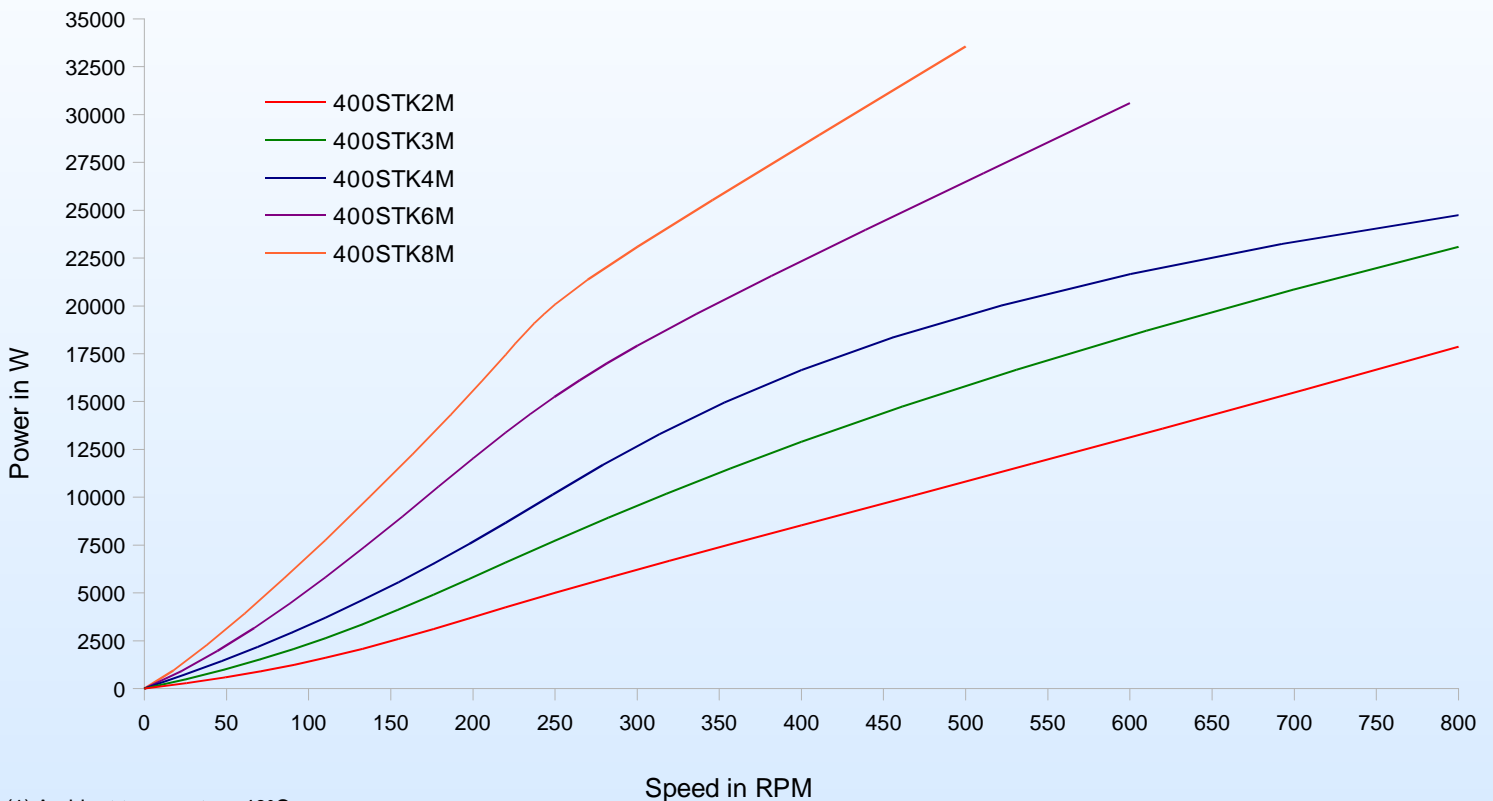
TECHNICAL CHARACTERISTICS

400 STK ALTERNATORS

See also the curves of Voltage, Torque, Efficiency vs Speed

		400STK2M		400STK3M		400STK4M		400STK6M		400STK8M			
Rated speed		Rpm		220	800	220	800	220	800	220	600	220	500
Rated Power at Rated speed	Rated power (1)(2)	W		4251	17874	6594	23082	8673	24737	13377	30588	17457	33552
	Input torque at rated speed(1)(2)	N.m		235	234	347	297	444	317	677	523	869	688
	Efficiency at rated power (1)(2)	%		79	92	83	93	85	93	86	93	87	93
	Current at rated power (1)	Amps		10.2	42	15.7	55.2	21	62.3	32.4	80.7	41.3	79.3
	Voltage at rated power (1)(2)(3)	V		246	253	247	250	244	240	243	227	249	253
Rated Power at Half speed	Rated Power at half speed (1)(2)	W		1605	8531	2630	12890	3702	16648	5804	17913	7755	20081
	Input torque at half speed (1)(2)	N.m		204	235	312	346	443	441	679	636	869	855
	Efficiency at half speed (1)(2)	%		69	87	74	89	73	91	74	90	77	88
Number of poles (number of pairs of poles)		24 (12)											
Cogging torque		N.m		2		3		4		6		8	
Phase resistance at 20°C		Ohm		2.48	0.15	1.24	0.07	0.74	0.04	0.42	0.04	0.29	0.05
Phase inductance (5)		mH		21	1.24	12.7	0.7	8.7	0.47	5.8	0.52	4.34	0.69
Voltage at no load (back emf) at 20°C (4)		V		346	305	330	285	314	266	314	257	314	285
Rotor inertia		10 ⁻³ Kg.m ²		163		245		325		488		650	
Weight		Kg		35		46		58		81		104	
Power cable square section (6)		mm ²		4x1.5	4x10	4x1.5	<u>4x10</u>	4x4	<u>4x10</u>	4x6	<u>4x16</u>	4x10	<u>4x16</u>
Power cable diameter		mm		Ø8.6	Ø17.6	Ø8.6	4x Ø9.5	Ø12.2	4x Ø9.5	Ø14	4x Ø11	Ø17.6	4x Ø11

Alternator 400STK Power - Speed



- (1) Ambient temperature 40°C
Wind speed 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 in sine wave mode with unity power factor
- (3) Line to line voltage. Voltage level may be adapted according to the application; please contact us
- (4) Line to line voltage, alternator at no load, rated speed and at 20°C
- (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)