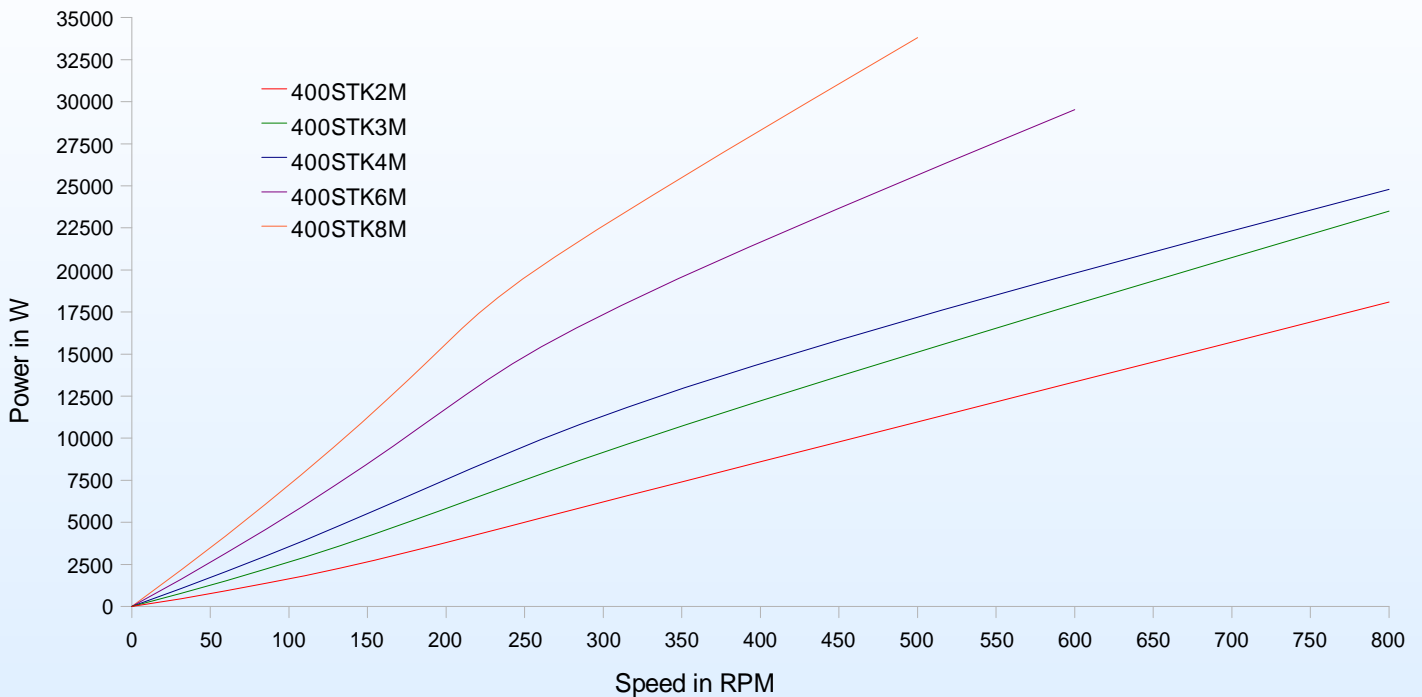


TECHNICAL CHARACTERISTICS

400 STK ALTERNATORS

			400STK2M		400STK3M		400STK4M		400STK6M		400STK8M	
Rated speed		Rpm	220	800	220	800	220	800	220	600	220	500
Data for Rated speed	Rated power (1)(2)	W	4319	18088	6618	23503	8747	24796	13357	29526	17429	33813
	Input torque at rated speed(1)(2)	N.m	237	236	345	301	443	317	677	503	869	693
	Efficiency at rated power (1)(2)	%	79	92	83	93	86	93	86	93	87	93
	Current at rated power (1)	Amps	10.8	45.3	16.3	59.0	21.9	62.2	33.5	74.0	43.7	84.7
	Voltage at rated power (1)(2)(3)	V	133	133	133	133	133	133	133	133	133	133
Data for Half speed	Power at half speed (1)(2)	W	1580	8608	2656	12500	3666	15000	5583	18000	7485	20141
	Input torque at half speed (1)(2)	N.m	228	240	333	349	429	448	656	681	842	871
	Efficiency at half speed (1)(2)	%	60	88	69	90	74	91	74	89	77	88
	Cogging torque	N.m	2.0		3.0		4.0		6.0		8.0	
	Phase resistance at 20°C	Ohm	2.44	0.14	1.63	0.1	0.65	0.04	0.44	0.04	0.29	0.05
	Phase inductance (5)	mH	21.5	1.23	12.4	0.7	8.77	0.52	6.3	0.62	4.48	0.69
	Phase voltage at no load (EMF) at 20°C (4)	V	199.8	173.6	190.3	164.7	180.5	159.1	186.2	160.4	181.5	162.1
	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>	4x2.5	<u>4x10</u>	4x6	<u>4x16</u>	4x10	<u>4x16</u>
	Power cable diameter	mm	Ø10.2	Ø18.8	Ø10.2	4x Ø9,5	Ø11.4	4x Ø9,5	Ø15.9	4xØ11	Ø18.8	4xØ11

Alternator 400STK 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)