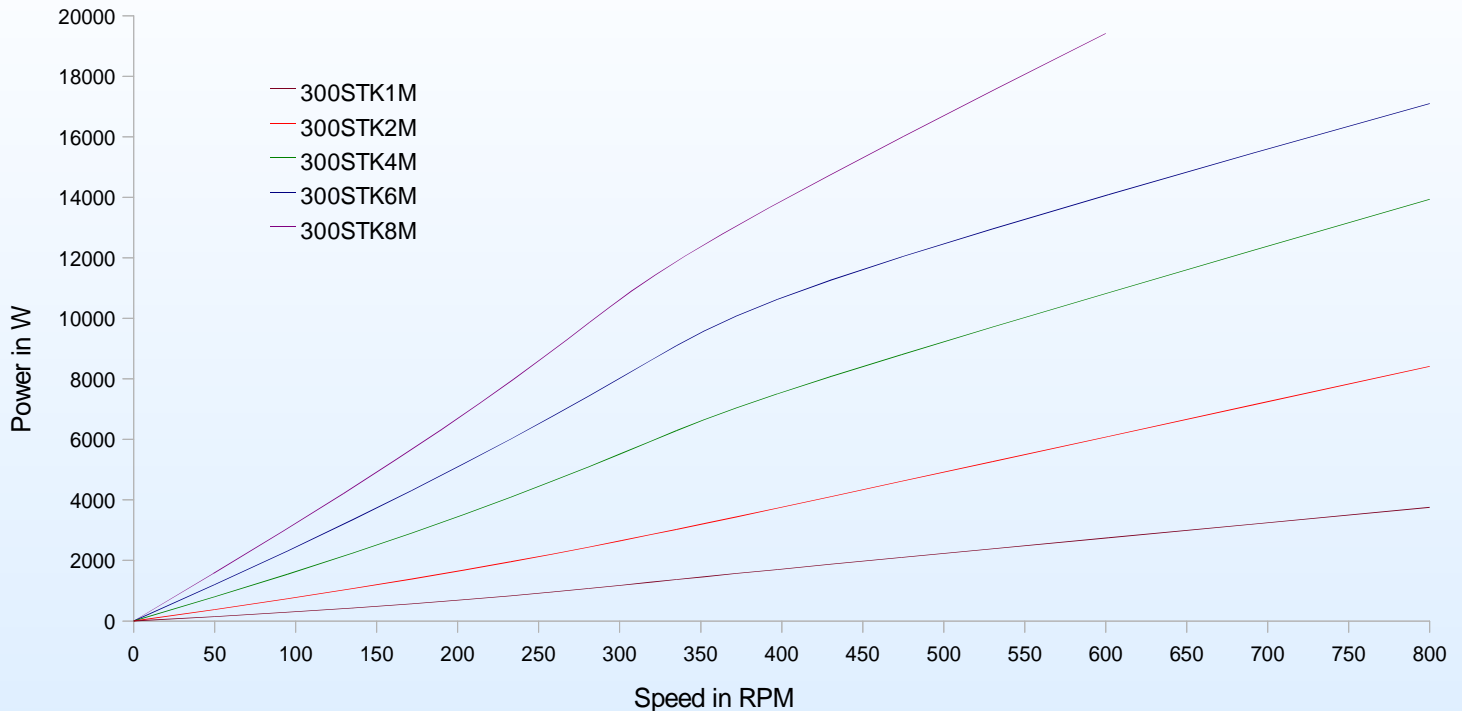


TECHNICAL CHARACTERISTICS

300 STK ALTERNATORS

			300STK1M		300STK2M		300STK4M		300STK6M		300STK8M	
Rated speed		Rpm	350	800	350	800	350	800	350	800	350	600
Data for Rated speed	Rated power (1)(2)	W	1451	3756	3174	8413	6627	13942	9573	17106	12683	19424
	Input torque at rated speed(1)(2)	N.m	55	52	104	114	214	182	301	222	397	338
	Efficiency at rated power (1)(2)	%	75	87	84	88	84	92	87	92	87	91
	Current at rated power (1)	Amps	3.8	9.8	7.9	21.1	16.6	34.9	24.0	42.9	31.8	48.7
	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	482	1727	1297	3745	2729	7741	4136	11126	5506	10632
	Input torque at half speed (1)(2)	N.m	55	55	99	104	206	215	290	302	383	396
	Efficiency at half speed (1)(2)	%	51	77	71	85	72	86	78	88	79	85
	Cogging torque	N.m	0.5		1.0		2.0		3,0		4,0	
	Phase resistance at 20°C	Ohm	9.3	1.25	2.41	0.47	0.99	0.15	0.53	0.08	0.37	0.11
	Phase inductance (5)	mH	36.4	4.9	15.1	3.04	8.5	1.28	5.08	0.78	3.86	1.11
	Phase voltage at no load (EMF) at 20°C (4)	V	198.3	165.7	178.6	180.4	186.9	165.5	177.4	159.8	178.6	164.1
	Rotor inertia	10 ⁻³ Kg.m ²	26.4		52.7		105.5		158.2		211	
	Weight	Kg	11.5		18		31		44		57	
	Power cable square section (6)	mm ²	4x1,5	4x1,5	4x1.5	4x2.5	4x1.5	4x6	4x4	4x10	4x6	4x10
	Power cable diameter	mm	Ø10,2	Ø10,2	Ø10.2	Ø11.4	Ø10.2	Ø15.9	Ø13.1	Ø18.8	Ø15.9	Ø18.8

Alternator 300STK 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)

ALXION

**Automatique
& Productique**