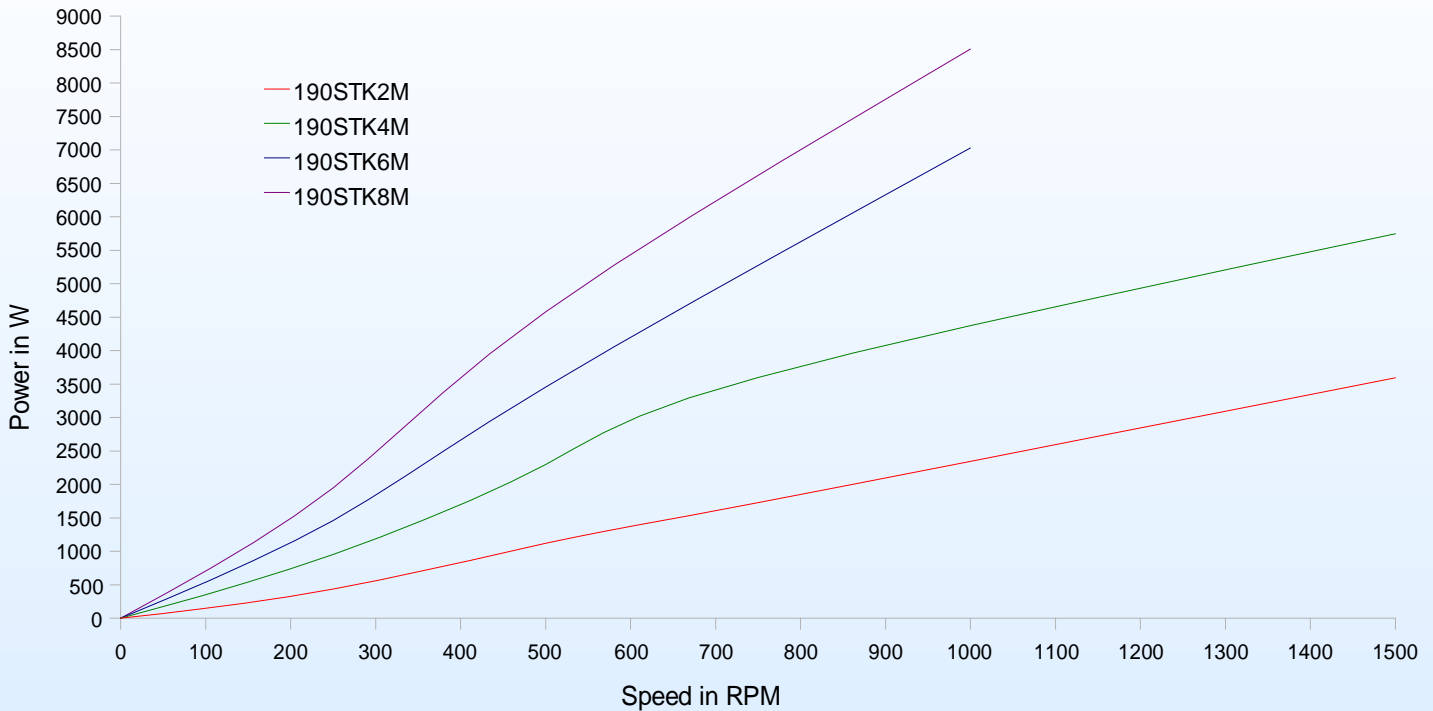


TECHNICAL CHARACTERISTICS

190 STK ALTERNATORS

			190STK2M		190STK4M		190STK6M		190STK8M	
Data for Rated speed	Rated speed	Rpm	500	1500	500	1500	500	1000	500	1000
	Rated power (1)(2)	W	1120	3593	2298	5747	3456	7031	4580	8506
	Input torque at rated speed(1)(2)	N.m	27	26	53	41	79	77	104	92
	Efficiency at rated power (1)(2)	%	79	87	83	88	84	87	84	88
	Current at rated power (1)	Amps	2.8	9.0	5.8	14.4	8.7	17.6	11.5	21.3
	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	436	1730	954	3600	1461	3456	1947	4580
	Input torque at half speed (1)(2)	N.m	25	27	50	54	74	79	98	104
	Efficiency at half speed (1)(2)	%	66	84	73	86	75	84	76	84
	Cogging torque	N.m	0.5		0.9		1.3		1.7	
	Phase resistance at 20°C	Ohm	8.39	0.82	2.98	0.25	1.75	0.42	1.25	0.26
	Phase inductance (5)	mH	84.83	8.42	40.61	3.54	27.11	6.61	20.67	4.39
	Phase voltage at no load (EMF) at 20°C (4)	V	205.9	192.6	200.8	176.2	200.2	196.8	201.5	185.2
	Rotor inertia	10 ⁻³ Kg.m ²	4.12		7.5		10.88		14.26	
	Weight	Kg	13		22		31		40	
	Power cable square section (6)	mm ²	4x1.5		4x1.5		4x1.5	4x2.5	4x1.5	4x2.5
	Power cable diameter	mm	Ø10.2		Ø10.2		Ø10.2	Ø11.4	Ø10.2	Ø11.4

Alternator 190STK 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 230Vac 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**