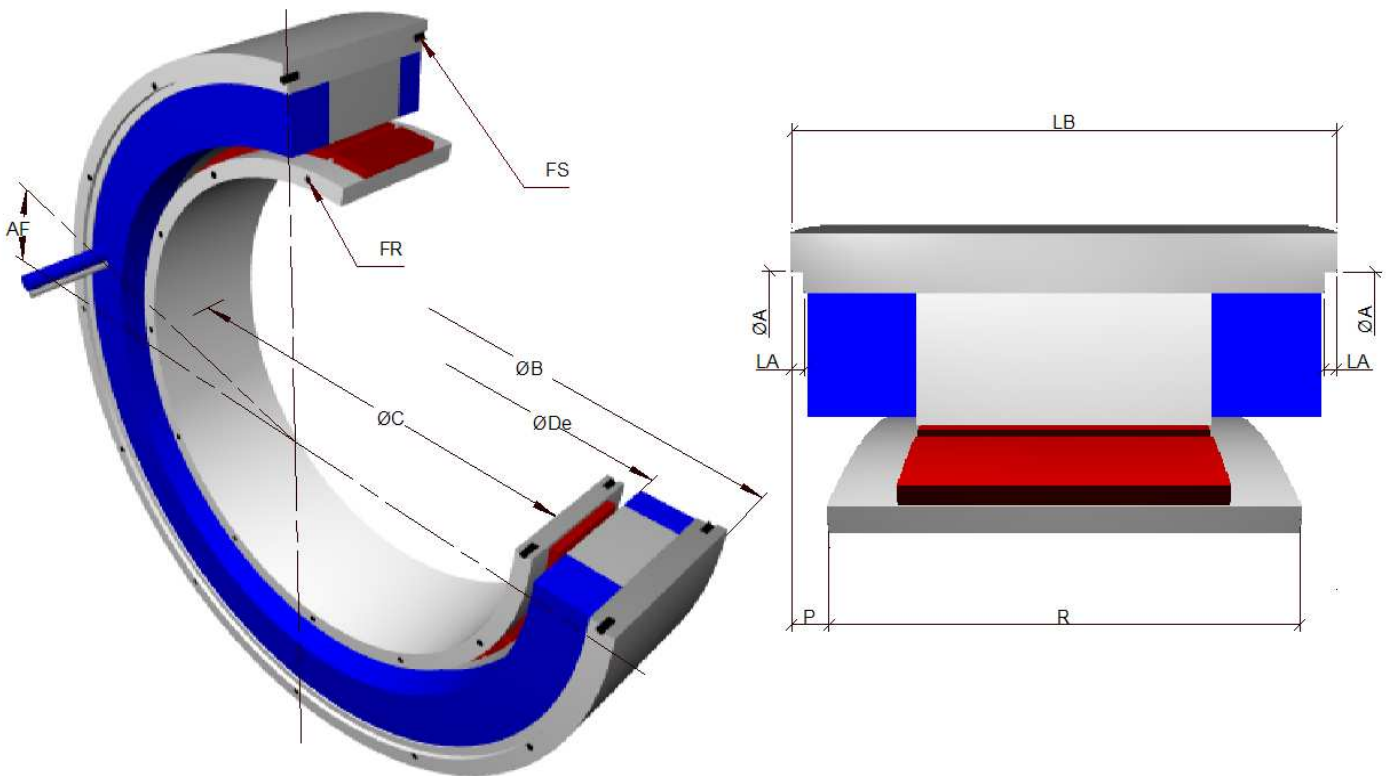


# ALTERNATORS 190 STK



		190STK1M	190STK2M	190STK3M	190STK4M	190STK5M	190STK6M	190STK7M	190STK8M
Housing internal centering diameter	A H8	172	172	172	172	172	172	172	172
Angle wire output / tapped holes	AF	22°30'	22°30'	22°30'	22°30'	22°30'	22°30'	22°30'	22°30'
Housing external centering diameter (natural convection)	B H7	190	190	190	190	190	190	190	190
Rotoric internal centering diameter	C H7	72	72	72	72	72	72	72	72
Housing internal diameter	De	98	98	98	98	98	98	98	98
Rotoric fixation holes	FR	8xM5 on Ø80	8xM5 on Ø80	8xM5 on Ø80	8xM5 on Ø80	8xM5 on Ø80	8xM5 on Ø80	8xM5 on Ø80	8xM5 on Ø80
Housing fixation holes	FS	8xM5 on Ø180	8xM5 on Ø180	8xM5 on Ø180	8xM5 on Ø180	8xM5 on Ø180	8xM5 on Ø180	8xM5 on Ø180	8xM5 on Ø180
Depth of housing internal centering diameter	LA	2	2	2	2	2	2	2	2
Housing length	LB ±0.15	103.75	140	176.25	212.5	248.75	285	321.25	357.5
Alignment rotor / housing	P ± 0.1	23	23	23	23	23	23	23	23
Maximum rotoric contact diameter	Pmax	94	94	94	94	94	94	94	94
Rotor length	R +0.15	68.25	104.5	140.75	177	213.25	249.5	285.75	322

## INTEGRATION :

- ✓ The cables are made of PU, class 6, foreseen for cable-bearing chains, 2 mt standard length, copper square section according rated current.
- ✓ Rotor / housing alignment (P) has to be executed within +/- 0.1 mm. Optionally, we can supply a mounting tool for achieving that alignment in case of assembly without possibility of accurate alignment.
- ✓ Thermal device cable consists of a shielded pair 2x2x0.25mm<sup>2</sup> section, 7mm external diameter.
- ✓ (De) represents:
  - 1- The maximum diameter passing inside the housing.
  - 2- The maximum diameter necessary for rotor assembly.
- ✓ (Pmax) diameter for pieces in contact with the rotor must never be exceeded.
- ✓ Tapped holes on each side of rotor and housing are angularly aligned.
- ✓ Cable positioning (AF) is theoretical. Leave a free room with a +/- 10 arc degrees tolerance around that position, on a 50 mm height from the housing side, for avoiding to force the cables at the alternator output.
- ✓ When designing the assembly, take care to insure a perfect contact between housing and user's bore for avoiding thermal problems.
- ✓ For housing mounting, use either external centering diameter (B) or internal centering diameters (A).
- ✓ For execution tolerances (perpendicularity, concentricity...), please consult us.

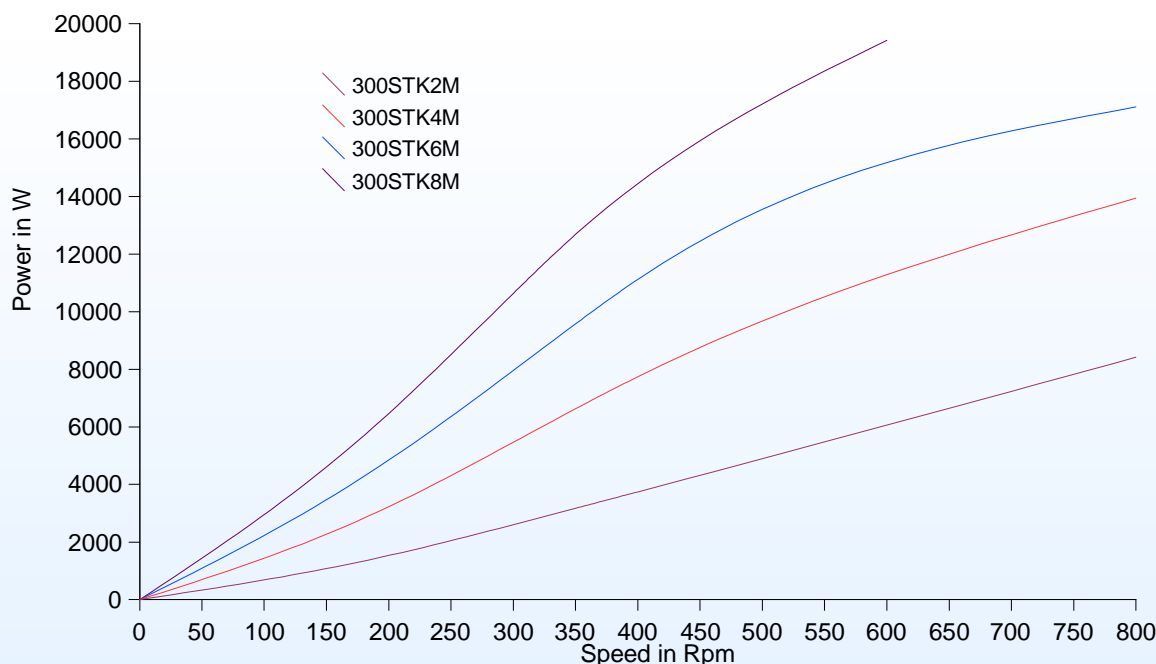
A full integration handbook can be supplied to our customers upon request  
 For further information or specific request about our alternators, feel free to contact us.

# TECHNICAL CHARACTERISTICS

## 300 STK ALTERNATORS

		300STK2M		300STK4M		300STK6M		300STK8M	
Rated speed	Rpm	350	800	350	800	350	800	350	600
Rated power (1)(2)	W	3174	8413	6627	13942	9573	17106	12683	19424
Current at rated speed (1)	Amps	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
Power at half speed (1)(2)	W	1297	3745	2729	7741	4136	11126	5506	10632
Phase resistance at 20°C	Ohm	2.41	0.47	0.99	0.15	0.53	0.08	0.37	0.11
Phase inductance	mH	15.1	3,04	8.5	1,28	5,08	0,78	3,86	1,11
Phase emf at 20°C (4)	V	178.6	180.4	186.9	165.5	177.4	159.8	178.6	164.1
Rotor inertia	10 <sup>-3</sup> Kg.m <sup>2</sup>	52.7	52.7	105.5	105.5	158.2	158.2	211	211
Weight	Kg	18	18	31	31	44	44	57	57
Power cable square section	mm <sup>2</sup>	4x1.5	4x2.5	4x1.5	4x6	4x4	4x10	4x6	4x10

**300 STK Generators Power - Speed**



- (1) Ambient temperature 40°C  
 Wind speed 10 m/s  
 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 unitary power factor
- (3) Single voltage, voltage is 230Vac phase to phase. Voltage level may be adapted according to the application
- (4) Alternator at no load and rated speed
- (5) For current at rated power