

STROMER
POWER

Comprehensive Specification Sheet

Low-Voltage AC Alternator
Electrical and Mechanical Data



SP4-G200E11

250kVA Prime / 270kVA Standby
Three Phase / 50Hz / 4 pole

World-Class Alternators

Setting new standards in all aspects from design, manufacturing, material selection and production to testing equipment, tooling and quality control.

Tough: Our alternators are trusted as a component in the production of stationary diesel generator sets, mobile power plants and other power generation equipment which is supplied to various commercial, agricultural, refrigeration, residential, government and military services.

Trusted: Our product is highly regarded for its superior quality and performance. The alternators are used as the main power supply for three major satellite launch bases, for a station in Antarctica and for a spacecraft series.

Tested: Our products are thoroughly tested in different environments to ensure unsurpassed quality and reliability. Our stringent tests verify overall performance and align our products with most internationally-recognised standards.

Standards

- StromerPower alternators meet all key international standards and regulations
- The 4-pole alternator complies with the following major domestic and international standards and regulations: GB755, BS5000, IEC60034, VDE0530, CSAC22.2 100 and NEMA MG-1.22
- It is designed, manufactured and marketed in an ISO 9001 quality assurance environment
- Alternator can be integrated in CE-marked generator set

Electrical Characteristics and Performance

- Class H insulation
- 2/3 pitch winding
- **Voltage Range:** 50Hz: 220v - 240v and 380v - 415v (440v)
- High efficiency and motor starting capacity
- Low reactances

Specifications Overview

Three Phase / 50Hz / 400V / PF = 0.8			
Continuous 40°C		Standby 40°C	
kw	kVA	kw	kVA
200	250	216	270

Rated Frequency	Voltage	Voltage Regulation	Voltage Regulation Change	Phase Change Rate	Power Factor
Hz	v	v	% UN	%	
50	400	+/- 1%	< +/- 10	+/- 1	0.8

Insulation Class	Type	Phase and Connection	
H	Brushless	Three Phase	4 Pole

AVR Model	Stator	Rotor
SX460	2/3 Pitch	Single Bearing



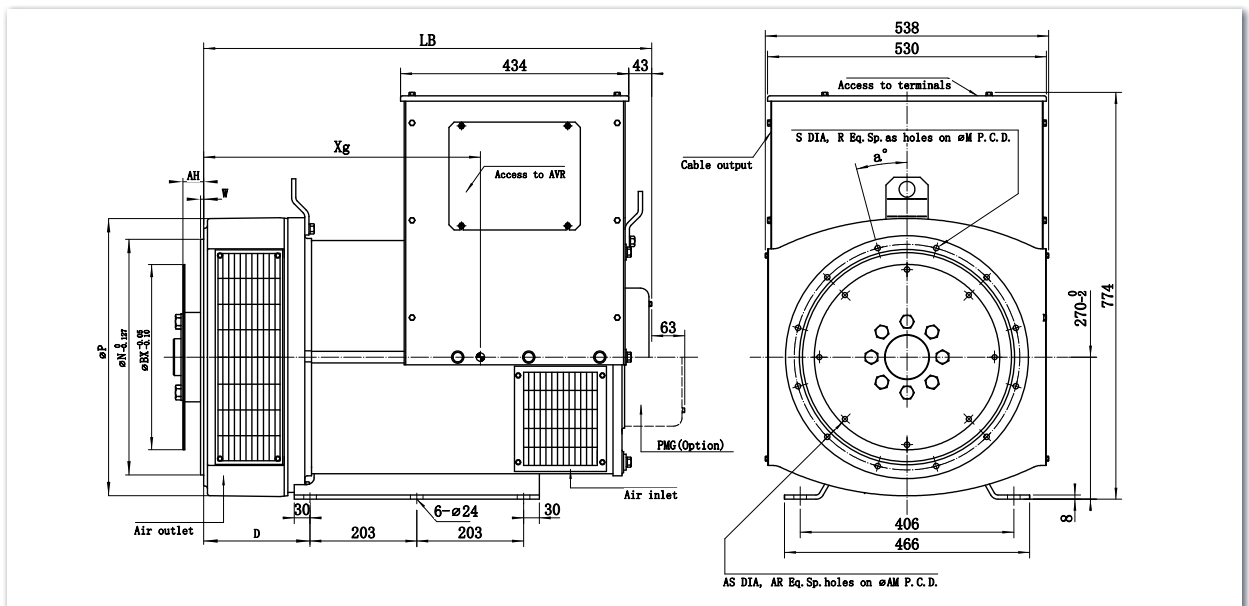
Mechanical Construction

- StromerPower enclosures are IP23
- All rotors are dynamically balanced in strict accordance with the requirements of the ISO1940 standard
- Robust flanges and shields
- The large junction box makes wiring and adjustment of the AVR easier
- Space for current transformers or other optional modules to be installed
- Compact design and sturdy assembly to withstand generator vibrations
- All our alternators use long-term sealed bearings
- Steel base

Excitation System Regulations

- **Self-Excitation Standard**
- **Parallel Use:** When the appropriate modules (AVR, current transformer and control equipment) are installed, all 4-pole alternators can be used in parallel
- **Bearing Capacity:** NEMA specifications
- **Waveform:** According to the IEC standard, the total harmonic distortion rate is less than 5% under no-load or non-linear load. The telephone interference factor (TIF) is less than 50 in accordance with NEMA specifications
- **Frequency:** To be used at a frequency of 50Hz (standard windings) (No. B31, B32)
- **Power Factor:** The alternator is designed for loads with a power factor of 0.8

Single-Bearing Outline Schematic



SAE Rating

Model	SAE	LB	LC	Xg	Weight
					kg
SP4-G200E11	1	1001.3	434	473	665
	2	986	434	473	665

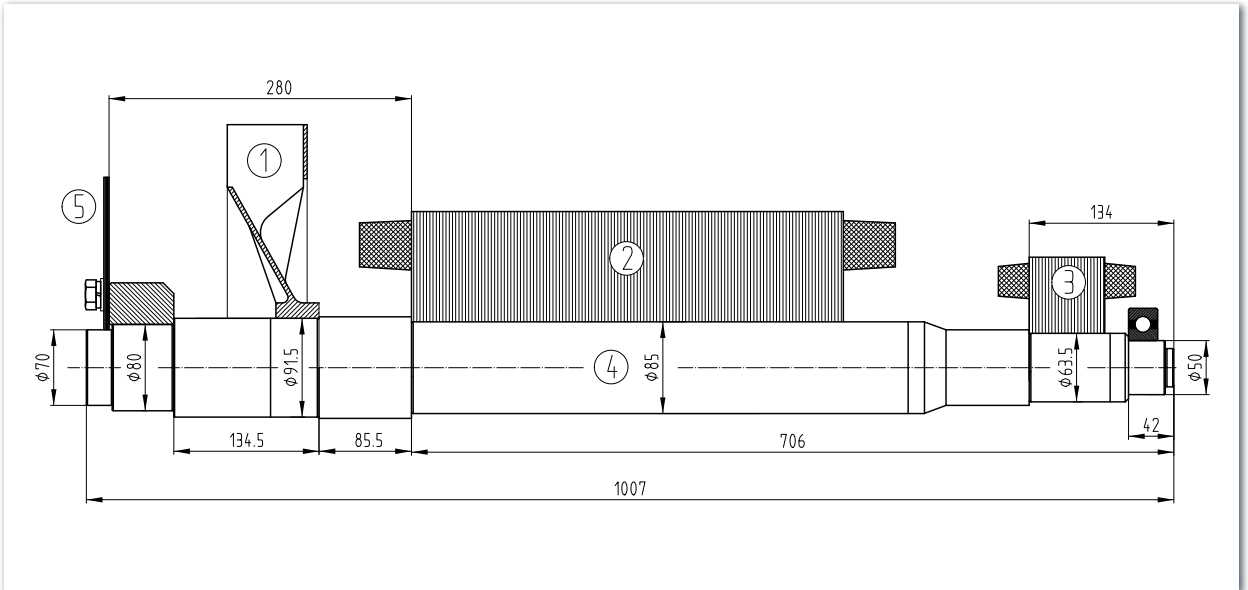
Adapter

SAE	BX	AM	AR - øAS	AH
	mm			
11.5	352.425	333.38	8 - ø11	39.6
14	466.725	438.15	8 - ø14	25.4

Flange

SAE	P	N	M	R - øS	W	D	a°
	mm						
1	580	511.175	530.225	12 - ø12	6	216.3	15
2	530	447.675	466.725	12 - ø12	5	202	15

Torsional Analysis Data



Fan		Main Rotor		Excitation Rotor		Shaft		Total	
Weight (kg)	J(kgm ²)	Weight (kg)	J(kgm ²)	Weight (kg)	J(kgm ²)	Weight (kg)	J(kgm ²)	Weight (kg)	J(kgm ²)
4.3	0.0394	178.44	2.2450	18.82	0.1463	47.93	0.0532	249.5	2.4839

SAE	5	Shafts Coupling Flex Plate		
	D	L	Weight (kg)	J(kgm ²)
11.5	290	1007	3.44	0.0291
14	290	1007	6.04	0.1053

Dimensions

Unpacked				Packed			
Length	Width	Height	Net Weight	Length	Width	H1044	Gross Weight
mm			kg	mm			kg
1044	538	774	665	1135	630	970	705

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The accuracy cannot be guaranteed as StromerPower have an ongoing process of development and reserve the right to change the specification of their products without notice.

