

# STROMER

POWER

## Comprehensive Specification Sheet

Low-Voltage AC Alternator  
Electrical and Mechanical Data



### **STRO-275KB**

250 kVA Prime / 275 kVA Standby  
Three Phase / 50Hz / 4 pole

## WORLD CLASS ALTERNATORS

StromerPower is a global leader for quality alternators from 10kVA to 1100kVA  
We provide alternators for generator set manufacturers and power producers worldwide

Every day, our products help secure access to power for thousands of people

We offer solutions for all standby and prime applications, from industrial outposts and mines to busy commercial zones and even residential neighborhoods

StromerPower alternators are available globally through a network of trusted distributors who adhere to our stringent quality controls and share our commitment to quality, reliability and trust



## STANDARDS QUALITY AND PRECISION

StromerPower alternators meet all key international standards and regulations  
Our alternators comply with the following major domestic and international standards and regulations

**GB755, BS5000, IEC60034, VDE0530, CSAC22.2 100, NEMA MG-1.22**

Designed, manufactured and marketed in an **ISO 9001** quality assurance environment  
our alternators can be integrated in CE-marked generator set

## ABOUT THE FACTORY BUILT ON LEGACY

Our factory has been providing world-class alternators and power generation solutions since 1955 with the vision of becoming a leading manufacturer of world-class alternator products.



**FACTORY  
STATISTICS**

**+60**  
years of experience

**+30,000**  
square meter workshop

**ISO 9001**  
quality rated

## Dimensions

| Unpacked |       |        |            | Packed |       |        |              |
|----------|-------|--------|------------|--------|-------|--------|--------------|
| Length   | Width | Height | Net Weight | Length | Width | Height | Gross Weight |
| mm       |       |        | kg         | mm     |       |        | kg           |
| 1025     | 590   | 644    | 631        | 1080   | 680   | 820    | 671          |

## Specifications Overview

| Single Phase / 50Hz / 400V / PF = 1 |  |     |  |              |  |     |  |
|-------------------------------------|--|-----|--|--------------|--|-----|--|
| Continuous 40 %                     |  |     |  | Standby 40 % |  |     |  |
| kw                                  |  | kVA |  | kw           |  | kVA |  |
| 200                                 |  | 250 |  | 220          |  | 275 |  |

| 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          | Series Star |

| AVR Model | Stator    | Rotor          |
|-----------|-----------|----------------|
| SX460     | 2/3 Pitch | Single Bearing |



## SAE Rating

| Model      | LB  | LC  | Xg  | kg  |
|------------|-----|-----|-----|-----|
|            | SAE |     |     |     |
| STRO-275KB | 965 | 368 | 455 | 640 |

## Adapter

| SAE    | BX      | AM     | AR - ØAS | AH   |
|--------|---------|--------|----------|------|
|        | mm      |        |          |      |
| #1/14" | 466.725 | 438.15 | 8 - Ø14  | 25.4 |

## Flange

| SAE    | P   | N       | M       | R - ØS   | W   | D   | a° |
|--------|-----|---------|---------|----------|-----|-----|----|
|        | mm  |         |         |          |     |     |    |
| #1/14" | 560 | 511.175 | 530.225 | 12 - Ø12 | 6.5 | 255 | 15 |

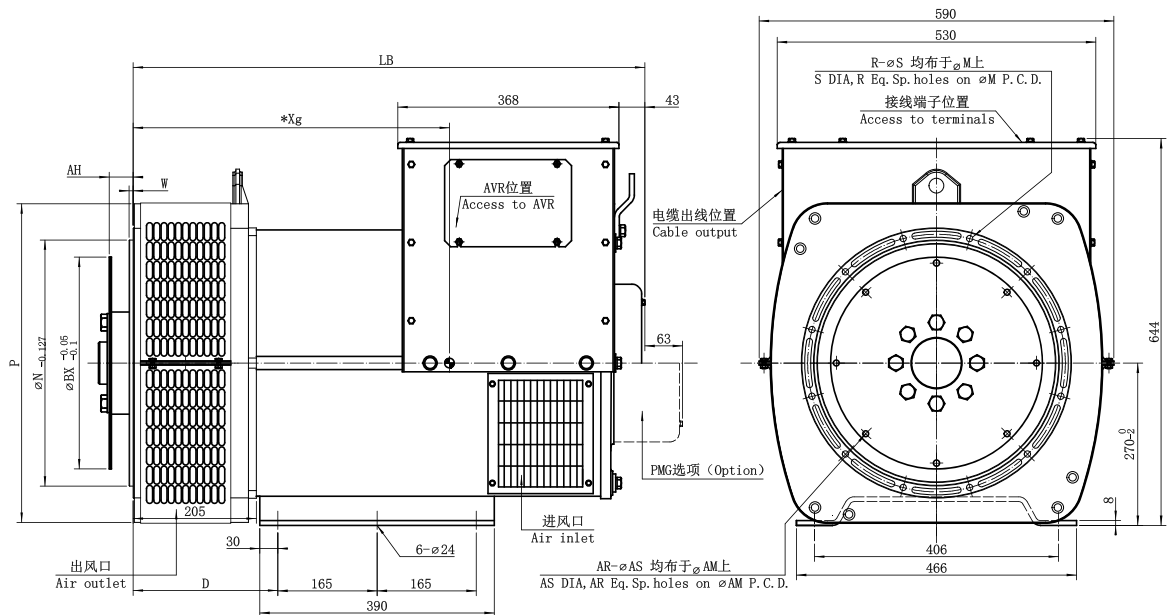
## Mechanical Construction

- 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

- Parallel Use:** When the appropriate modules (AVR, current transformer and control equipment) are installed, all 2-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 1

## Single-Bearing Outline Schematic



| Fan         |                      | Main Rotor  |                      | Excitation Rotor |                      | Shaft       |                      | Total       |                      |
|-------------|----------------------|-------------|----------------------|------------------|----------------------|-------------|----------------------|-------------|----------------------|
| Weight (kg) | J(kgm <sup>2</sup> ) | Weight (kg) | J(kgm <sup>2</sup> ) | Weight (kg)      | J(kgm <sup>2</sup> ) | Weight (kg) | J(kgm <sup>2</sup> ) | Weight (kg) | J(kgm <sup>2</sup> ) |
| 1.802       | 0.026                | 173.1       | 1.8789               | 18.82            | 0.1463               | 35          | 0.0272               | 228.722     | 2.0784               |

| SAE    | 5   | Shafts Coupling Flex Plate |             |                      |
|--------|-----|----------------------------|-------------|----------------------|
|        | D   | L                          | Weight (kg) | J(kgm <sup>2</sup> ) |
| #1/14" | 241 | 965                        | 6.3         | 0.1754               |



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