

**STROMER**  
POWER

## Comprehensive Specification Sheet

Low-Voltage AC Alternator  
Electrical and Mechanical Data



# STRO-440K

400kVA Prime / 440kVA 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                           |     | Standby |     |
| kw                                   | kVA | kw      | kVA |
| 400                                  | 440 | 440     | 484 |

| Rated Frequency | Voltage | Voltage Regulation | Voltage Regulation Change | Phase Change Rate | Power Factor |
|-----------------|---------|--------------------|---------------------------|-------------------|--------------|
| Hz              | v       | v                  | % UN                      | %                 |              |
| 50              | 400     | 1%                 | 5%                        | +/- 1             | 0.8          |

| Insulation Class | Type   | Phase and Connection |        |
|------------------|--------|----------------------|--------|
| H                | IM B35 | Three Phase          | 4 Pole |

| AVR Model | Stator    | Rotor          |
|-----------|-----------|----------------|
| SX440     | 2/3 Pitch | Single Bearing |





Technical drawing of a mechanical assembly, likely a pump or motor component, showing a side view with dimensions and callouts.

**Dimensions:**

- Overall length: 1052
- Overall width:  $\phi 140$
- Distance from left end to center of component 1: D
- Distance from left end to center of component 2: L
- Distance from left end to center of component 3: 225
- Distance from left end to center of component 4: 125
- Distance from left end to center of component 5: 178
- Distance from left end to center of component 6: 95.5

**Callouts:**

- 1: Component 1 (hatched)
- 2: Component 2 (hatched)
- 3: Component 3 (hatched)
- 4: Component 4 (hatched)
- 5: Component 5 (hatched)
- 6: Component 6 (hatched)

| SAE  | 5   | Shafts Coupling Flex Plate |             |         |
|------|-----|----------------------------|-------------|---------|
|      | D   | L                          | Weight (kg) | J(kgm²) |
| 1/14 | 232 | 1021                       | 6.3         | 0.1754  |

| Unpacked |       |        |            | Packed |       |        |            |
|----------|-------|--------|------------|--------|-------|--------|------------|
| Length   | Width | Height | Net Weight | Length | Width | Height | Net Weight |
| mm       |       |        | kg         | mm     |       |        | kg         |
| 1065     | 646   | 818    | 871        | 1250   | 770   | 1070   | 955        |

*The information contained in this brochure is for guidance only and does not form part of any contract.  
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.*

