



Features

- Provides redundant power to single-input equipment by managing two separate, independent power sources.
- Maximum automatic transfer speed between two sources: ≤ 5 ms for the 63 A versions, ≤ 4 ms for the 100 A to 1250 A versions.
- Maximum protection: it automatically inhibits the transfer in the event of a downstream short circuit, preventing damage to both sources.
- Total source independence and internal redundancy on all components including bypass, power supplies, cooling systems etc. ensures maximum continuity to the connected loads.
- Direct front access to all components and separate dual manual bypass guarantee easy and safe maintenance.
- Continuous input voltage and frequency monitoring to allow safe switching without source cross-overs.
- Real-time SCR status detection and backfeed protection for maximum upstream system safety.
- Circuit breakers for improved protection in all conditions.
- RS232, RS485 ModBus ports, dry contacts and slots for optional communication card.

Key options

- Additional dry contacts card.
- Operation without neutral.
- Isolation transformer.
- Top cable entry.
- 4-pole configuration with switched neutral.

MAXIMUM AVAILABILITY FOR ALL CRITICAL APPLICATIONS

STS three-phase deliver high performance
with an extremely short transfer time
(≤ 4 ms) and high power handling (up to 3000 A)
with large overload capacity.

| MODEL | | STS 100A-3p | STS 250A-3p | STS 400A-3p | STS 630A-3p | STS 800A-3p | STS 1000A-3p | STS 1250A-3p |
|-----------------------------|---------------------------------|---|-------------|-------------|---------------|-------------|--------------|--------------------|
| SIZE (A) | | 100 | 250 | 400 | 630 | 800 | 1000 | 1250 |
| INPUT | Terminal block | 4-wire terminals | | | | | | |
| | Rated voltage | 208/380/400/415/440/480 V three-phase with neutral | | | | | | |
| | Voltage tolerance | $\pm 10\%$ (up to $\pm 20\%$ on request) | | | | | | |
| | Frequency | 50/60 Hz, ± 2 Hz (up to ± 4 Hz on request) | | | | | | |
| | Source harmonic voltage content | Unlimited ($> 20\%$ THD, switching time ≤ 10 ms) | | | | | | |
| | Switching phase angle | From 5° to 30° | | | | | | |
| OUTPUT | Terminal block | 4-wire terminals | | | | | | |
| | Frequency | 50/60 Hz | | | | | | |
| | Switching time | ≤ 4 ms | | | | | | |
| | Switching type | Break before make, switching inhibited on fault | | | | | | |
| | Power factor | From 1 to 0.3 | | | | | | |
| | Maximum crest factor | 3:1 | | | | | | |
| | Load current distortion | Unlimited | | | | | | |
| EFFICIENCY | Overload | 125% for 30 min, 150% for 10 min, 200% for 30 s, 2000% for 1 cycle, 4000% for 1/2 cycle | | | | | | |
| | (AC/AC) | $> 99\%$ | | | | | | |
| GENERAL | Dimensions (WxDxH) mm | 820x835x1475 | | | 1220x860x1900 | | | 2000x1000 x2100 |
| | Weight (kg) | 265 | 290 | 305 | 615 | 660 | 1000 | 1450 |
| | Protection | IP20 | | | | | | |
| | Installation layout | Wall mounting, back to back, and side by side | | | | | | |
| | Access | Front access, top and bottom cable entry | | | | | | |
| ENVIRONMENTAL PARAMETERS | Operating temperature | 0°C to $+40^\circ\text{C}$ | | | | | | |
| | Altitude (a.s.l.) | < 1000 m with no power derating, > 1000 m with 0.5% derating for every 100 m | | | | | | |
| | Audible noise at 1 m | ≤ 62 dBA | | | | | | |
| CONNECTIVITY | User interface | LCD graphic display, LED synoptics and function keys | | | | | | |
| | Built-in communication ports | Relay contact card, RS232, RS-485 ModBus-RTU adapter | | | | | | |
| | Optional accessories | Additional relay contact card | | | | | | |
| REGULATIONS | Standards | IEC EN 62310-1, IEC EN 62310-2, IEC EN 62310-3, IEC EN 62947-3 | | | | | | |
| | Marking | CE, UKCA | | | | | | |