

Eaton 93 STS

100/250/400/630/800/1000/1250A



93 STS

Meeting absolute uptime requirements for:

- Data centres
- Internet providers
- Industrial facilities
- Utilities
- Telecommunications
- Government
- Financial services



Static Transfer Switch

Seamless power transfer

- 3-phase Static Transfer Switch, for automatic transfer of critical AC loads to and from one power source to another, without interruption.
- Rated from 100A to 1250A.
- Available in 3- and 4-pole versions.

Reliable performance

- Continuous monitoring of sources ensures automatic and instantaneous power transfer, without cross-connecting the sources.
- Retransfer is also automatic, and there is the capability for manual transfer if required.
- All the system control boards feature redundant internal power distribution.
- A dual manual bypass is built in, to enable safe maintenance with no disruption of the power supply.
- A global installed base reflects the widespread acceptance and popularity of the Eaton 93 STS.

Connectivity and easy management

- The 93 STS has RS232 and RS485 interfaces, with Modbus protocol. It also features output relay contacts.
- There is a built-in HMI and system mimic panel. The LCD screen and block diagram of the STS – with integrated LEDs – allows a quick check of the switch's operating status.
- Metering, alarms and event logs are also provided.
- The 93 STS range is supplied in a free-standing cabinet.

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Eaton 93 STS 100-1250A Technical Specifications

| General | | | | | | | |
|-------------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|
| Rating | 100A | 250A | 400A | 630A | 800A | 1000A | 1250A |
| Dimension (mm) (W x H x D) | 820 x 1475 x 835 | 820 x 1475 x 835 | 820 x 1475 x 835 | 1220 x 1900 x 860 | 1220 x 1900 x 860 | 1220 x 1900 x 860 | 2000 x 2100 x 1000 |
| Weight (kg) | 265 | 290 | 305 | 615 | 660 | 710 | 800 |

| Operational | |
|------------------------------|---|
| Input / Output connection | Hardwired |
| Nominal input voltage (Vac) | 208/380/400/415/441/480 Vac three phase |
| Source voltage range | Up to +/- 20%, +/- 10% factory adjusted |
| Frequency | 50/60 Hz |
| Transfer time and mode | <=4ms, break before make (avoid fault propagation) |
| Efficiency | >=99% |
| Load power factor | 1 to 0,3 |
| THD current f.back from load | Unlimited |
| Standard options | 3-phase 4-pole configuration, plug-in circuit breakers, operation without neutral, Panel Builder versions |
| Options on request | Output distribution panels, isolation transformer, special IP rating, paint finish |

| User interface | |
|--------------------------------|--|
| Front display | Graphical LCD display showing status, meters, alarms and event log, mimic with LED |
| Communication ports (optional) | RS232, RS485, Modbus, 9 programmable inputs, 5 (+9 optional) programmable output relays, additional relays |
| Operational temperature | 0°C - +40°C |
| Relative humidity | 0,95% non-condensing |
| Altitude | <1000m |
| Audible noise at 1m (dBA) | <65 dBA (according ISO 3747) |
| Certification | |
| Markings | CE |
| Safety | EN 50178 |
| EMC | EN61000-6-4, EN61000-6-2 |
| Low voltage assemblies | IEC 60436-1, 60439-2, 60439-3 |
| Semiconductor convertors | IEC 60146-1-1, 60146-1-3, 60146-2 |
| Degree of protection | IEC 60529 |



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