

# 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.



Powering Business Worldwide

# 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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