

Static Transfer Switch MODEL S

i - STS

The Model S is a 3 or 4 pole, three phase free standing fully segregated static transfer switch that offers a flexible solution to customers working in an evolving critical load environment. Its segregated design and ample cable zones allows safe and easy maintenance/swapping of supplies, even while retaining load.



The Model S provides uninterrupted power to your critical equipment by automatically switching between two independent power sources upon detection of a supply source problem. To avoid the dangers of paralleling power sources, all switching is break-before-make and is completed in less than 5 milliseconds, ensuring no disruption to the operation of your equipment. These units are extra rugged and contain high fault capacity solid state thyristors for installation into high fault current environments, (35 or 50 kA capable short circuit capabilities).

The Range:

Rated typically from 400 to 1250 Amperes in either 3 phase, 3 or 4 pole configurations complete with integrated mechanically and electrically interlocked maintenance bypass and power module isolation facilities.

Simplicity Is The Key:

At Static Power, we believe in keeping things simple while maintaining the full functionality of our equipment. The i-STS can be easily transferred from one supply to the other by using the TRANSFER pushbutton while the LCD has a simplified control hierarchy which uses a down arrow and right arrow pushbuttons. Setting of preferred supplies as well as a controls override function is performed through a simple slide switch within the STS. Preferred source can also be set via the LCD.

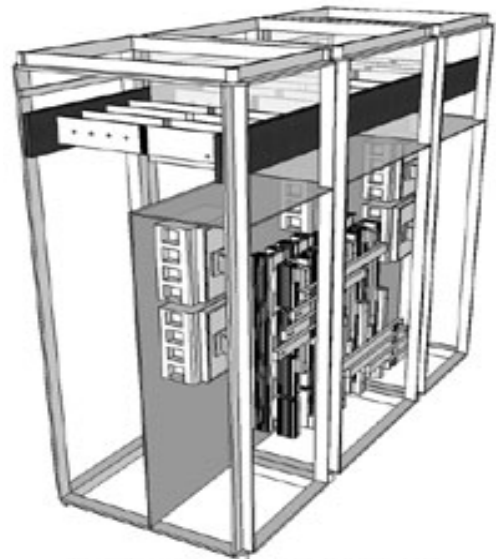
The Model S, i-STS is offered with various options for connection to your equipment/ computer load to always ensure maximum flexibility.

Communication:

The standard Model S STS is fitted with seven voltage-free contacts and three remote inputs. If you require a more advanced monitoring solution, we also offer monitoring through Modbus as well as a web browser interface and SNMP to monitor and if needed, control the STS. Setting of all of the STS parameters is performed via the LCD and can also be performed using the web browser interface.

Maximum Reliability:

The Model S Static Transfer Switch features a high reliability, low maintenance, robust design with redundant detection circuitry and power supplies. The units use DSP high speed digital sampling for stable, reliable and predictable operation. We are so confident of the reliability of our equipment, we offer the industry's longest warranty period.



Model S is show without panels.

i-STS Features	Benefits
Industry's Smallest Size Static Transfer Switch	Ideal for corridors or adjacent to existing distribution boards.
Fully Redundant Low noise Fans	Low noise and maximum reliability
Break Before Make Transfers	Prevent paralleling of input sources
Large Overload and Fault Capacity (No fuses)	Suitable for installations with fault capacity up to 35 & 50kA
Guaranteed Load Fault Transfer Lock-out	Will not transfer faults to alternative source
Synchronous and Non-Synchronous Transfers Allowed	Transfer at safely even if sources are asynchronous
SCR Open and Short Circuit Protection	No overlapping or loss of supply due to SCR or control failures
LAN Web Server Option Built Into Hardware	Monitor and control STS through Web Browser software
Redundant Controls and Triple Redundant Power Supply	More secure higher MTBF for your equipment/Redundant power monitoring

Specifications

These specifications refer to a typical three phase Model S Static Transfer Switch

Rating	400 - 1250 Amperes RMS
Voltage Rating	415/240 V \pm 20%
Permissible Voltage Distortion	20% THDV
Frequency	50 Hz \pm 5%
Type	3 + N (3-phase, 4-pole, or 3 phase, 3-pole)
Efficiency	99 % (3P)
Transfer Type	Thyristor (break-before-make, no source overlap, zero current)
Detection Digital	< 1 msec
dV/dt	>1000 V/ μ sec
MTBF	> 800,000 Hrs
Device Ratings	3500 Amperes RMS, 1600 Volts, 35 kA 10msec, > 5,000,000 A2Sec
Fault rating	35 kA (or 50kA optional)
Fault Current Setting	300% peak (transfer lock-out)
Protection	External
Overload Capacity	Up to 120% for 30 seconds 500% for 0.5 second 1000% Amperes for 100 msec 35,000 Amperes for 10 msec
Remote I/O	7 x Voltage free contacts (50 V DC, 1 Ampere, N/C)
LAN Browser	Optional
Modbus TCP	Optional
Modbus RTU (RS232)	Optional
SNMP	Optional
Operating Temperature	0 - 40 oC
Cooling Fan	forced, redundant
Noise	< 63 dB(A) typically
Physical Size	1900mm high x 2000mm wide x 800mm deep
Cable Entry	Top or Bottom
Maintenance Access	Front Only (via double, lockable doors), Fully shrouded and compartmented .
Weight	365 kg (typical)
Colour	RAL7035 (Riverstone, off white)
Compliance	AS3100 & AS/NZ/IEC 62310-1 (for STSs) AS/NZ(IEC) 62310-1 & 2
Warranty	24 months

Subject to change without notice.

Static Transfer Switches

i- STS Manufacturing is a subsidiary of
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