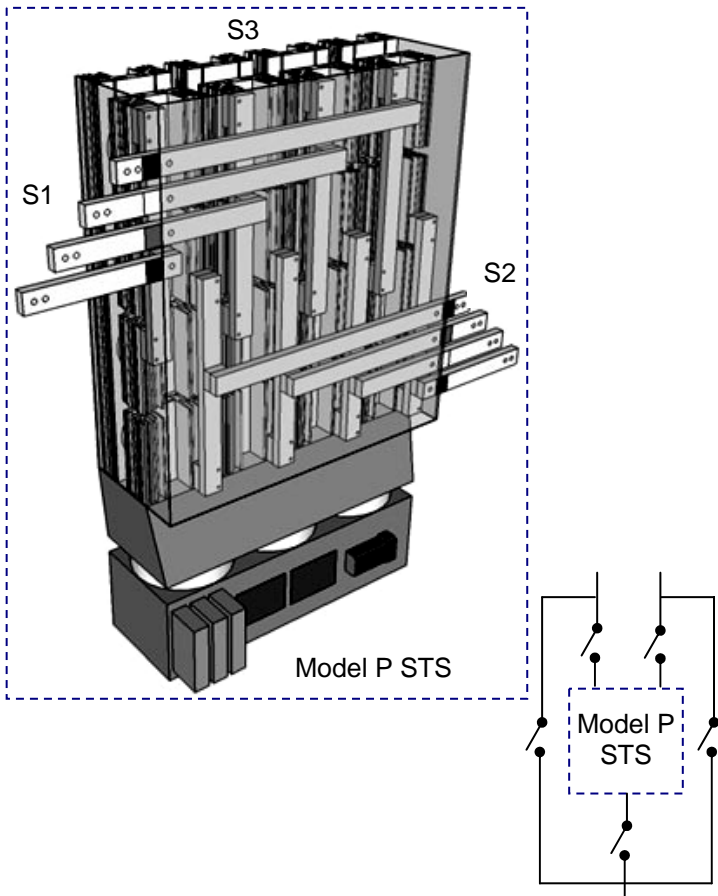


Static Transfer Switch MODEL P

The Model P is a 3 or 4 pole, three phase panel mount static switch. Designed to fit inside small spaces, the Model P is the perfect solution when it is more appropriate to incorporate the STS as part of the switchboard..

The Model P comes complete as a solid state static transfer switch power module; ready to be installed and have power connected. All that remains is for the switchboard manufacturer to provide isolation and bypass arrangements so that the STS power module can be safely maintained.



The complete solution will provide uninterrupted power to your critical equipment by automatically switching between two independent power sources upon detection of 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, (16, 35 or 50 kA capable short circuit capabilities).

i - STS

The Range:

Rated from 250 to 1250 Amperes in either 3 phase, 3 or 4 pole configurations complete with large format LCD control panel, electrical interlocking for maintenance bypass and 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 the override function is performed through a simple slide switch.

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

Communication:

The standard Model P 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 the STS parameters is undertaken via the LCD control panel or using the web browser interface.

Maximum Reliability:

The Model P 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.



i-STS Features	Benefits
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 15 & 35 & 50kA
Guaranteed Load Fault Transfer Lock-out	Will not transfer faults to alternative source
Synchronous and Non-Synchronous Transfers Allowed	Transfer 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	Higher MTBF for your equipment

Specifications

Rating	250 - 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	typ. 3500 Amperes RMS, 1600 Volts, 35 kA 10msec, > 5,000,000 A2Sec
Fault rating	35 kA (16kA or 50kA optional)
Fault Current Setting	300% peak (transfer lock-out)
Protection	External (Electrical interlocks provided) SWBD Isolators CBs to be fitted with auxiliaries and shunt trips
Overload Capacity	Up to 120% for 30 seconds 500% for 0.5 second 1000% Amperes for 100 msec) 35,000 Amperes for 10 msec (16kA and 50KA options)
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 - 45 $^{\circ}$ C
Cooling Fan	forced, redundant
Noise	< 63 dB(A) typically
Physical Size	(35 & 50kA) 1200mm high x 700mm wide x 350mm deep 16kA 600mm high x 600 mm wide x 200 mm deep
Cable Entry	Top (S3) and sides (S1 LHS), (S2, RHS)
Maintenance Access	Front Only (via double, lockable doors), Fully shrouded.
Weight	145 kg (typical)
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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