

Static Transfer Switch MODEL C

The **Model C** three phase Static Transfer Switch (STS) provides uninterrupted power to your critical equipment by automatically switching between two independent power sources upon detection of a problem. To avoid the dangers of paralleling power sources, all switching is break-before-make and ensures no disruption to the operation of your connected equipment.

With limited install infrastructure this unit offers zero footprint and industries smallest physical size. For wall or within switchboard mounting. Only 210 mm depth (Size 600 wide x 600 high).

These units are extra rugged and contain generously overrated, high fault capacity solid state thyristors for installation into distribution systems with 16 or 36 kA short circuit capability. These unit do not contain fuses or circuit breakers and rely on up stream and down stream discrimination.

The Range:

Rated from **40 to 500 Amperes** in either 3 phase, 3 or 4 pole configurations complete with maintenance bypass facility. Units up to 315 Amperes can incorporate a CAM operated single operation maintenance bypass switch OR as more usual these components are incorporated with separate switches, isolators and circuit breakers within near-by switchboard arrangements. Because the maintenance bypass and isolation is undertaken separate from the unit it is totally OH & S safe for maintenance processes.

No fans for units up to 100 Amperes. Fully redundant low noise (<60dB(A)) for units with ratings greater than 100 Amperes. For larger capacities the units incorporate redundant fans redundant fail safe fan controls.



Maximum Reliability:



The Model C ϵ -STS features a high reliability, low maintenance, robust design with redundant circuitry. The units use DSP high speed digital sampling for stable, reliable and predictable operation. Through the use of digital circuitry and redundant and independent controls MTBFs of 800,000 Hrs are attainable. We are so confident of the reliability of our equipment, we offer the industry's longest warranty period.

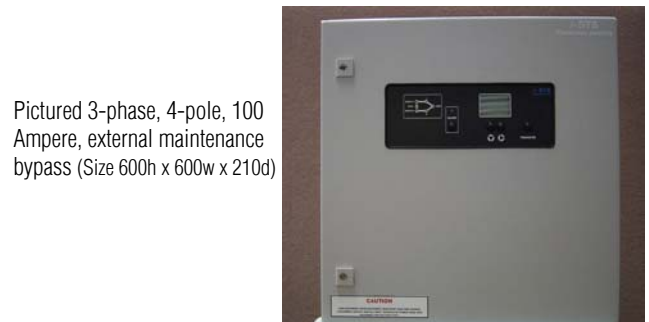
i-STS



Pictured 500 Ampere 16 kA
(Size 800 w x 600 h x 400 d)
Wall mounted



Pictured 200 Ampere 16 kA
(Size 600 w x 600 + 300h x 210 d)
& optional Maintenance Bypass
& Isolation. Wall mounted



Pictured 3-phase, 4-pole, 100
Ampere, external maintenance
bypass (Size 600h x 600w x 210d)

Simplicity Is The Key:

Bi-colour LED mimic and backlit graphic LCD panel to provide useful realtime information such all variables that are displayed on a single screen, power quality, 100 deep event log and utilisation history.

The ϵ -STS can be easily transferred from one supply to the other by using the 'TRANSFER' pushbutton while the LCD has an uncomplicated easy to read and interpret control hierarchy which is operated using the down and right arrow pushbuttons.

Setting of all STS parameters is achieved via the LCD or using the web browser interface, (password protected). Dual setpoints for Manual and Auto Mode from User Control Panel. User selectable preferred source and a controls override function, 7 discrete volt free contacts for remote monitoring and 3 control inputs.

Communication:

Each ϵ -STS is fitted with five voltage-free contacts and three remote inputs. For more advanced monitoring, we also offer MODBUS or a web browser interface to monitor and if needed, control the STS. Setting of all STS parameters is achieved using the web browser interface.

Specifications

Rating	40/63/100/150/200/250/315/400 & 500 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	99.7 %
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	920 Amperes RMS, 1600 Volts, 16 kA 10msec, > 1,000,000 A ² Sec
Fault rating	16 kA (or 36 kA optional)
Fault Current Setting	300% Amperes peak (transfer lock-out)
Protection	External
Overload Capacity	Up to 120% for 30 seconds 500% Amperes for 0.5 second 1500 Amperes for 100 msec (1000%) 16,000 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
Operating Temperature	0 - 40 °C
Cooling	Fan forced, redundant for units > 100 Amperes
Noise	< 60 dB(A) typically
Physical Size	600mm high x 600mm wide x 210mm deep (typical module)
Cable Entry	Bottom
Maintenance Access	Front Only
Weight	55 kg (typical)
Colour	RAL7035 (off white)
Compliance	AS3100 & AS/NZ/IEC 62310-1 (for STSs)
Warranty	24 months

Subject to change without notice.

Static Transfer Switches

⚡ STS Manufacturing is a subsidiary of
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