

i-STS

Static Transfer Switches



Standard Commercial Product Catalogue 2017

i-STS

Static Transfer Switches



A superior technology

i-STS is the trademark product range of Intelligent Static Transfer Switches by Static Power.

i-STS units employ solid-state thyristors (Silicon Controlled Rectifiers) which means there are no moving parts. This allows for a faster switching time of less than a quarter of an AC cycle with higher reliability, making our units far superior to their relay based counterparts.

To avoid the dangers of paralleling power sources, all switching is break-before-make, where the break is so small that it ensures there will be no disruption to the operation of your connected equipment. Unlike relay based units that break and make anywhere on the power/voltage curve, all changeovers occur at zero current (zero power) where the load demand at that point is minimal. The inferior relay types often provide high transient voltages during the change over as a consequence.



With in-built intelligence

Each unit contains a Complex Programmable Logic Device (CPLD) that runs through advanced fault detection algorithms and refers back to user settings before making a decision to transfer. The logic software ensures the transfer is initiated only when it is needed and when there can be no interruption to your critical load or supplies.

Protect your investment with i-STS



Static Power i-STS units have been installed in a range of applications around the world

- Retail distribution centres
- Power generation plants
- Airfield systems control
- Railway signaling
- Building security
- Hospitals
- Data centres
- Telecommunications
- Critical IT operations
- Automated manufacturing
- Universities
- Road infrastructure

Rack Mount Units

Model A1	1
Model B1	3
Model B2	5
Model B3	7

Wall Mount Units

Model W	9
Model C11

Free Standing Units

Model H13
Model K15
Model G17

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Model A1 16 or 32 Amps



Simple, reliable redundancy

The Model A is the starting point for our range of fully solid state static transfer switches, all of which employ solid-state thyristor (SCR) switching. The refined design of the A1 delivers high reliability at exceptional value, all fitting into a compact 1RU rack mount.

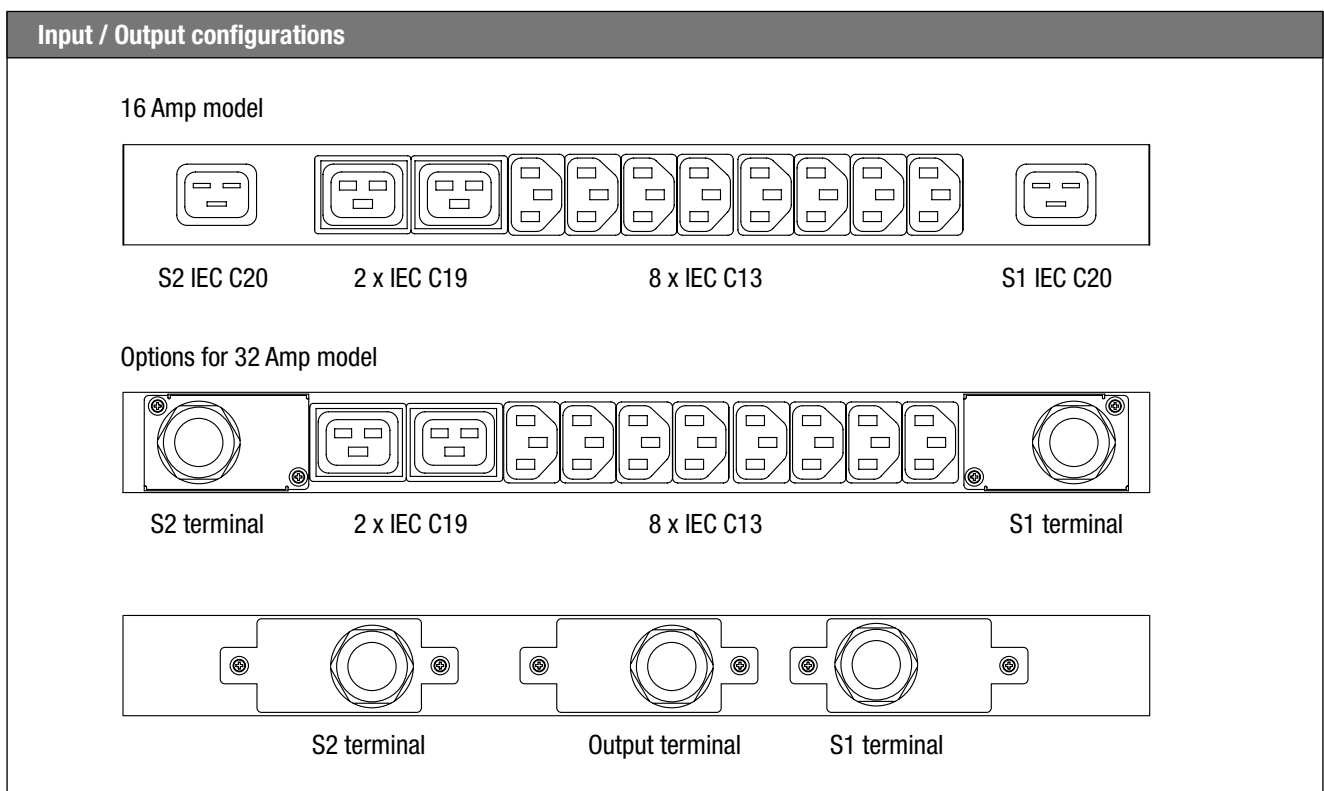
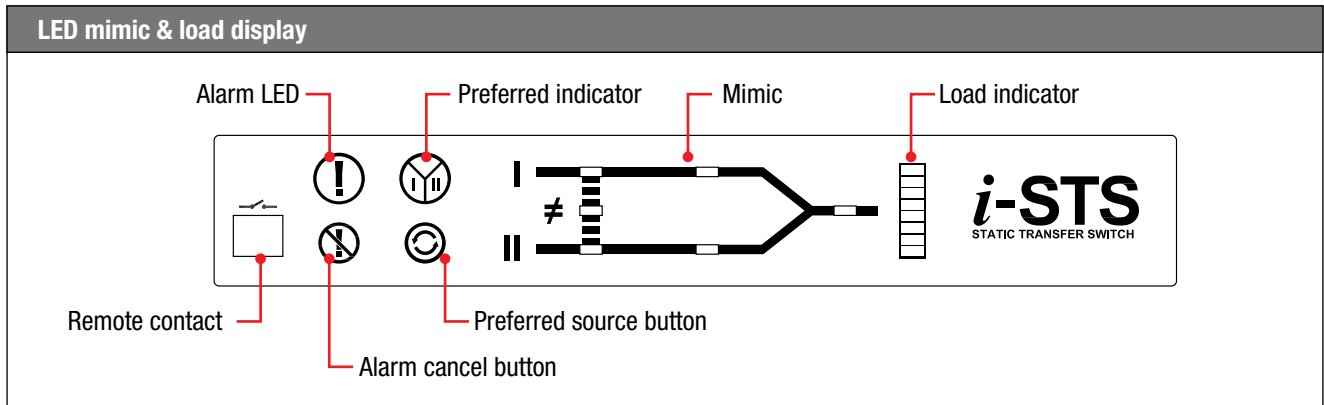
The front panel features an simple and easy-to-use LED mimic status and load indicator.

Available options

- 16 or 32 Amp current capacity
- Optional input isolator switches
- Optional I/O configurations
- Optional LAN for Modbus & SNMP
- Wall mount bracket

Key Features

- Small 1RU Design
- 2 pole, single phase
- Passively cooled
- IP rated LED mimic decal
- One touch transfers
- Visual and sound alarm
- Incoming source isolators optional
- Preferred source selection



Model A1 Technical Specifications

Power		
Type	2 poles / 1 phase (4 x AC static switches)	
Current rating	16 or 32 Amp	
Voltage rating	110 V or 230 V \pm 15 %	
Safe install environment	20 kA, 100A interally fused	
Frequency	50 / 60 Hz (auto detection) \pm 10 %	
Max THDV	15 % (max allowable source voltage distortion)	
Power factor	No practical limit	
Crest factor	3.5:1	
Overload capacity	80 A for 30 sec 200 A for 1 sec 2 kA for 20 ms	
Inputs	IEC C20 (for 16 A)	6 mm ² terminals (for 32 A)
Outputs	2 x IEC C19 & 8 x IEC C13	6 mm ² terminals (for 32A)
Switching		
Transfer type	Thyristor / SCR - break before make	
Detection	Digital: <1 ms	
Break time	Normal: < 1 ms Max: < ¼ cycle	
Asynchronous break time (ms)	0 ms / 10 ms / 50 ms / proportional (user settable)	
dV/dt max	800 V / μ s	
MTBF	1,000,000 hours	
Device ratings	150 A RMS, 1200 V, 2 kA, 1 cycle	
Fault current setting	300 % A peak (transfer lockout)	
Protection	100 A fuses	
Communication and Control		
User interface	LED mimic decal Preferred supply and alarm cancel buttons	
Contacts	Out: 1 x voltage free general alarm indicator	
Environmental		
Dimensions (H W D)(mm)	44 x 483 x 285 (16 A model)	44 x 483 x 307 (32 A model)
Weight	2.5 kg	
Temperature	0 - 45 °C	
Humidity	5 - 90 % non-condensing	
IP rating	IP44	
Compliance		
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval / RCM / 61000-6-3 / UL Capable	
Standard warranty	36 months off site repair or replacement policy	



Big features, tiny footprint

With up to 32A of switching capacity, the Model B1 is perfect for any small to medium rack-based installation. This Mark 2 revision of the Model B1 offers more customisable features including a 3-phase expansion and a field replaceable maintenance bypass adaption.

The front panel features an LED mimic and graphic OLED interface for quick access to user settings and event list. Remote connectivity is made via ethernet and 20 way header.



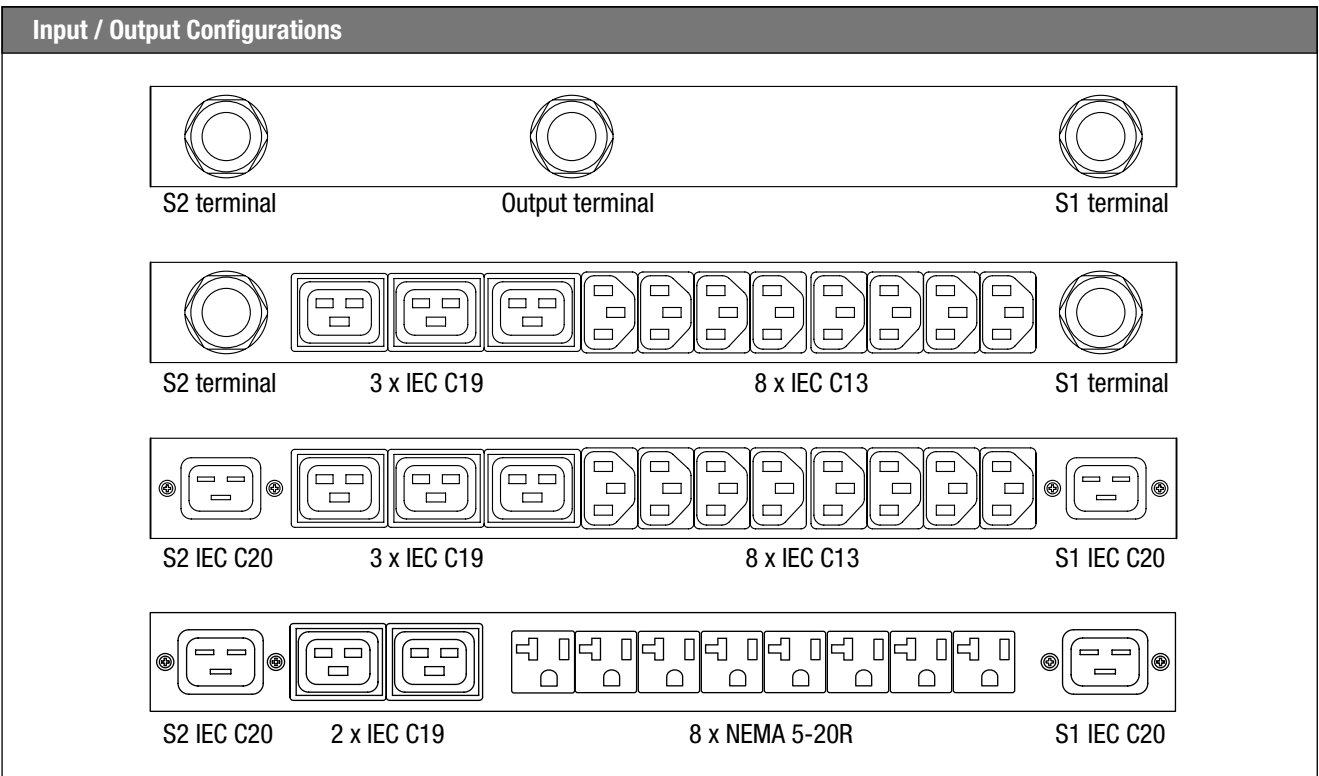
Key Features

- Small 1RU Design
- 2-pole single-phase
- 3 or 4-pole 3-phase with expansion
- Passively cooled
- LED mimic decal with graphic OLED interface
- One touch transfers
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts
- Flexible I/O configurations
- Integrated maintenance bypass expansion

Available options

- 20 or 32 Amp current capacity
- 2-pole single-phase
- 3-phase with expansion*
- Incoming source isolators optional
- Wall mount bracket
- Maintenance bypass expansion*

*Features new to Model B1 Mark 2



Model B1 Technical Specifications

Power			
Type	2-poles / 1-phase	3-poles / 3-phase	4-pole 4-phase
Current rating	32 Amp		
Voltage rating	110 V or 230 V \pm 15%		
Safe install environment	20 kA, 100 A internally fused		
Frequency	50 / 60 Hz (auto detection) \pm 10%		
Max THDV	15% (max allowable source voltage distortion)		
Power factor	No practical limit		
Crest factor	3.5:1		
Overload capacity	100 A for 30 sec 400 A for 1000 ms 2 kA for 20 ms		
Inputs	IEC C20 sockets or terminals		
Outputs	8 x IEC C13 & 3 x IEC C19 or terminals		
Switching			
Transfer type	Thyristor / SCR - break before make		
Detection	Digital: <1 ms		
Break time	Normal: < 1 ms Max: < ¼ cycle		
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (user settable)		
dV/dt max	800 V / μ s		
MTBF	1,000,000 hours		
Device ratings	150 A RMS, 1400 V, 2 kA, 1 cycle		
Fault current setting	300% A peak (transfer lockout)		
Protection	100 A fuses		
Communication and Control			
User interface	LED mimic decal with graphic OLED Preferred supply and alarm cancel buttons		
Contacts	In: 2 x self wetting transfer controls Out: 5 x voltage free status indicators		
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alerts		
MODBUS RTU (optional)	RS232 / RS485 (option of RS485 using third party adapter)		
Environmental			
Dimensions (H W D)(mm)	44 x 483 x 390 (D+120 with maintenance bypass expansion)		
Weight	7 kg		
Temperature	0 - 45 °C		
Humidity	5 - 90 % non-condensing		
IP rating	IP31		
Compliance			
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval / RCM / 61000-6-3 / UL Capable		
Standard warranty	24 months off site repair or replacement policy		



Three phase, 2RU

The Model B2 is smallest of the three phase units, with a compact size of 2 RU. The B2 features a hot-swappable power module and integrated maintenance bypass allowing for continuous power during servicing.

With up to 63A of current capacity, the B2 is ideal for those needing more power in a smaller rack mount package.

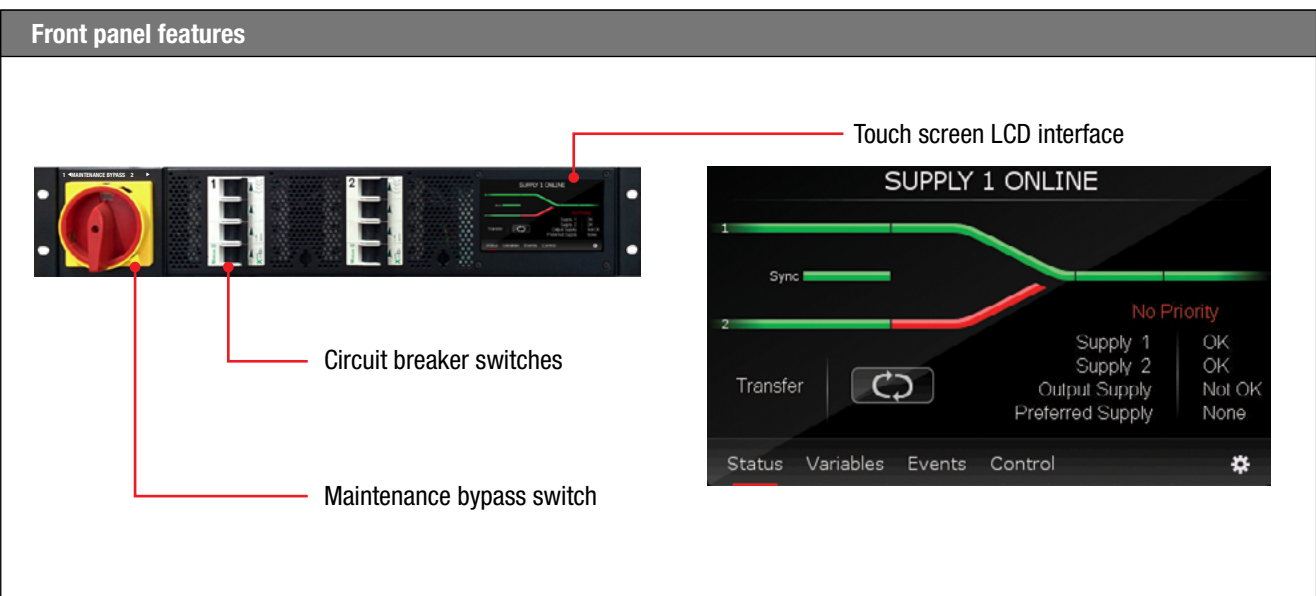


Key Features

- Small 2RU design
- Colour touch screen LCD interface
- One touch transfers
- Integrated maintenance bypass
- Hot socket field replaceable power module
- Incoming source isolators optional
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts

Available options

- 32 or 63 Amp current capacity
- 2-pole, single-phase
- 3-pole, 3-phase
- 4-pole, 3-phase
- IP rated decal interface optional



Model B2 Technical Specifications

Power			
Type	2-pole / 1-phase	3-pole / 3-phase	4-pole / 3-phase
Current rating	32 or 63 Amp		
Voltage rating	110, 220, 230 or 230 / 400 V \pm 15 % (other voltage ratings available)		
Safe install environment	20 kA, 100 A internally fused		
Frequency	50 / 60 Hz (auto detection) \pm 10%		
Max THDV	15 % (max allowable source voltage distortion)		
Power factor	No practical limit		
Crest factor	3.5:1		
Overload capacity	100 A for 30 sec 400 A for 1 sec 2 kA for 20 ms		
Inputs	16 mm ² terminals (fixed wiring at rear)		
Outputs			
Switching			
Transfer type	Thyristor / SCR - break before make		
Detection	Digital: <1 ms		
Break time	Normal: < 1 ms Max: < ¼ cycle		
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (user settable)		
dV/dt max	800 V / μ s		
MTBF	800,000 hours		
Device ratings	120 A RMS, 1600 V, 2 kA, 1 cycle		
Fault current setting	300 % A peak (transfer lockout)		
Protection	100 A fuses		
Communication and Control			
User interface	Colour touch screen LCD (IP rated decal available)		
Contacts	In: 2 x self wetting transfer controls Out: 5 x voltage free status indicators		
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alerts		
MODBUS RTU (optional)	RS232 / RS485 (option of RS485 using third party adapter)		
Environmental			
Dimensions (H W D)(mm)	88 x 483 x 520		
Weight	15 kg		
Temperature	0 - 45 °C		
Humidity	5 - 90 % non-condensing		
IP rating	IP41		
Compliance			
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval / RCM / 61000-6-3 / UL Capable		
Standard warranty	24 months off site repair or replacement policy		

Model B3 80 to 160 Amps (Supersedes Model B4)



High Power Density

The Model B3 is a high power capacity, rack-mount static transfer switch with a hot-swappable power module design. This unit is ideal for high power installations with the convenience of fitting into a standard 19-inch rack. The front has two input isolator switches and a maintenance bypass switch.

Key Features

- Convenient 3 RU Design
- IP rated OLED LCD interface & LED mimic
- One touch transfers
- Input isolator switches
- Integrated maintenance bypass
- Hot socket field replaceable power module
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts

Available options

- 63 / 80 / 100 / 125 / 160 Amp current capacity
- 2-pole, single-phase
- 3-pole, 3-phase
- 4-pole, 3-phase
- Backfeed contactors
- Wall mount bracket

Available 3Q 2017

Key features



3-position, overlapping maintenance bypass switch (fixed portion / cradle)

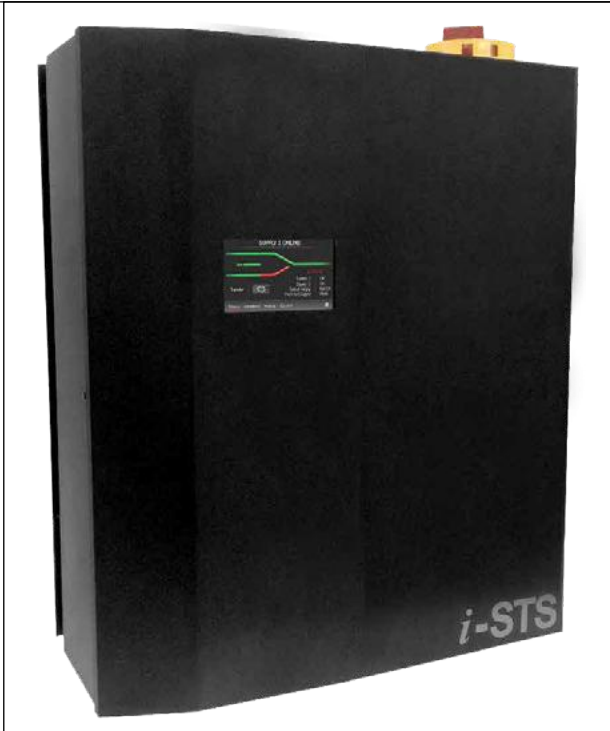
Hot socket field replaceable power module (no-break)

Incoming source power isolators

OLED graphic display, LED bi-color mimic & controls (front panel accessible HLI & discrete contacts)

Model B3 Technical Specifications

Power			
Type	2-pole / 1-phase	3-pole / 3-phase	4-pole / 3-phase
Current rating	63, 80, 100, 125 or 160 Amp		
Voltage rating	110, 115, 200, 230, 277 or 230 / 400 V \pm 20 % (other voltage ratings available)		
Safe install environment	20 kA, 200 A internally fused		
Frequency	50 / 60 Hz (auto detection) \pm 10 %		
Max THDV	15% (max allowable source voltage distortion)		
Power factor	No practical limit		
Crest factor	3.5:1		
Overload capacity	250 A for 30 sec 500 A for 1 sec 10 kA for 20 msec		
Inputs	M6 cable lug fixed wiring at rear (Up to 35/50 mm ² or 70mm ² using narrow palm lugs)		
Outputs			
Switching			
Transfer type	Thyristor / SCR - break before make		
Detection	Digital: <1 ms		
Break time	Normal: < 1 ms Max: < ¼ cycle		
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (user settable)		
dV/dt max	800 V / μ s		
MTBF	800,000 hours		
Device ratings	250 A RMS, 1600 V, 10 kA for 1 cycle		
Fault current setting	300 % A peak (transfer lockout)		
Protection	200 A fuses		
Communication and Control			
User interface	OLED LCD and LED mimic & membrane push buttons		
Contacts	In: 2 x self wetting transfer controls Out: 5 x voltage free general alarm indicator		
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alert		
MODBUS RTU (optional)	RS232 / RS485 (option of RS485 using third party adapter)		
Environmental			
Dimensions (H W D)(mm)	132 x 483 x 540		
Weight	27 kg (typically)		
Temperature	0 - 45 °C		
Humidity	5 - 90 % non-condensing		
IP rating	IP21		
Compliance			
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval / RCM / 61000-6-3 / UL Capable		
Standard warranty	24 months off site repair or replacement policy		



Space saving design

A wall mount unit for use at the point of distribution where the static transfer switch is close to the load. The Model W has an excellent power rating to size ratio making it ideal for high current, small space installations.

Key Features

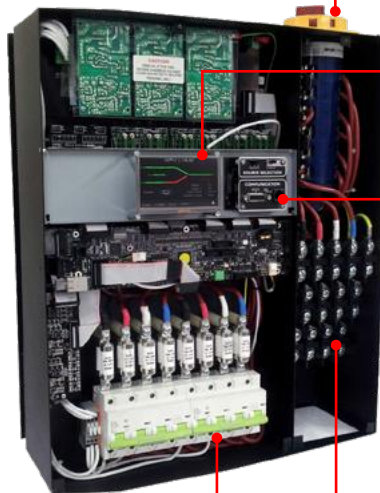
- Space saving wall-mount design
- Colour touch screen LCD interface
- One touch transfers
- Integrated maintenance bypass
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts

Available options

- 32 / 50 / 63 / 80 / 100 Amp current capacity
- 2-pole, single-phase
- 3-pole, 3-phase
- 4-pole, 3-phase
- Top or bottom cable entry
- IP rated decal interface available

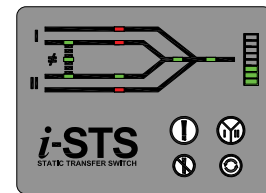
Internal view

Front panel removed / protective panels



Maintenance bypass switch

Touch screen LCD interface



Optional industrial IP rated decal interface (replaces colour LCD)

Remote communication - Ethernet & DA26 port

Terminals

Circuit breakers

Model W Technical Specifications

Power			
Type	2-pole / 1-phase	3-pole / 3-phase	4-pole / 4-phase
Current rating	32, 50, 63, 80 or 100 Amp		
Voltage rating	110, 220, 230 or 230 / 400 V \pm 20 % (other voltage ratings available)		
Safe install environment	20 kA, 100 A internally fused (200 A internal fuses for 100 A rated STS)		
Frequency	50 / 60 Hz (auto detection) \pm 10 %		
Max THDV	15% (max allowable source voltage distortion)		
Power factor	No practical limit		
Crest factor	3.5:1		
Overload capacity	120 A for 30 sec 200 A for 0.5 sec 400 A for 100 ms 2 kA for 20 ms		
Inputs	M6 cable lug (up to 35/50 mm ² or 70mm ² using narrow palm lugs) Bottom cable entry (or top as specified at time of PO)		
Outputs			
Switching			
Transfer type	Thyristor / SCR - break before make		
Detection	Digital: <1 ms		
Break time	Normal: < 1 ms Max: < ¼ cycle		
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (user settable)		
dV/dt max	800 V / μ s		
MTBF	1,000,000 hours		
Device ratings	134 A RMS, 1600 V, 2 kA for 1 cycle		
Fault current setting	300% A peak (transfer lockout)		
Protection	100 A fuses or 200 A fuses for 100 A unit		
Communication and Control			
User interface	Colour touch screen LCD or IP rated decal interface		
Contacts	In: 2 x self wetting transfer controls Out: 5 x voltage free general alarm indicator		
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alerts		
MODBUS RTU (optional)	RS232 / RS485 (option of RS485 using third party adapter)		
Environmental			
Dimensions (H W D)(mm)	460 x 260 x 550		
Weight	25 kg (typically)		
Temperature	0 - 45 °C		
Humidity	5 - 90 % non-condensing		
IP rating	IP44		
Compliance			
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval		
Standard warranty	24 months off site parts repair or replacement policy		



Fuse-less wall mount

The Model C has a high power capacity catering for industrial installations of up to 250A. It includes a maintenance bypass option via a mechanical interlock mechanism.

Key Features

- Fuse-less design
- Space saving wall-mount design
- LED mimic decal with monochrome graphic LCD interface
- One touch transfers
- Integrated maintenance bypass
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts
- High fault current capacity

Available options

- 63 / 100 / 125 / 160 / 200 / 250 Amp current capacity
- 2-pole, single-phase
- 3-pole, 3-phase
- 4-pole, 3-phase
- Top or bottom cable entry
- Maintenance bypass mechanical interlock mechanism

Model C Technical Specifications

Power			
Type	2-pole / 1-phase	3-pole / 3-phase	4-pole / 3-phase
Current rating	63, 100, 125, 160 Amp		
Voltage rating	110, 220, 230 or 230 / 415 V \pm 20 % (other voltage ratings available)		
Safe install environment	20 kA for 20 ms, fuse-less design		
Frequency	50 / 60 Hz (auto detection) \pm 10 %		
Max THDV	15 % (max allowable source voltage distortion)		
Power factor	No practical limit		
Crest factor	3.5:1		
Overload capacity	500 A for 30 sec 1 kA for 1 sec 20 kA for 20 ms		
Inputs	M6 cable lugs (up to 35/50 mm ² or 70mm ² using narrow palm lugs) Bottom cable entry (or top as specified at time of PO)		
Outputs			
Switching			
Transfer type	Thyristor / SCR - break before make		
Detection	Digital: <1 ms		
Break time	Normal: < 1 ms Max: < ¼ cycle		
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (user settable)		
dV/dt max	800 V / μ s		
MTBF	800,000 hours		
Device ratings	600 A, 1800 V, 20 kA for 1 cycle		
Fault current setting	300% A peak (transfer lockout)		
Protection	Circuit breakers		
Communication and Control			
User interface	LED mimic decal with monochrome graphic LCD Preferred supply switch Override supply switch		
Contacts	In: 2 x self wetting transfer controls Out: 5 x voltage free general alarm indicator		
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alerts		
MODBUS RTU (optional)	RS232 / RS485 (option of RS485 using third party adapter)		
Environmental			
Dimensions (H W D)(mm)	800 x 600 x 400		
Weight	60 - 95 kg (typically)		
Temperature	0 - 45 °C		
Humidity	5 - 90 % non-condensing		
IP rating	IP54		
Compliance			
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval		
Standard warranty	24 months off site parts repair or replacement policy		



Small footprint, fuse-less

Developed with the conservation of floor space in mind, the Model H has the industry's smallest footprint for its capacity. Maintenance bypass is standard via a mechanical interlock mechanism.

The design of the enclosure accommodates wiring of the input and output from either the top or bottom.

Key Features

- Fuse-less design
- LED mimic decal with monochrome graphic LCD interface
- One touch transfers
- Integrated maintenance bypass
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts
- High fault current capacity

Available options

- 63 to 250 Amp current capacity
- 2-pole, single-phase
- 3-pole, 3-phase
- 4-pole, 3-phase
- Top or bottom cable entry

Internal view



Model H Technical Specifications

Power			
Type	2-pole / 1-phase	3-pole / 3-phase	4-pole / 3-phase
Current rating	63, 100, 125, 160, 200 or 250 Amp		
Voltage rating	110, 220, 230 or 230 / 415 V \pm 20 %, (other voltage ratings available)		
Safe install environment	20 kA for 20 ms, fuse-less design (34 kA optional)		
Frequency	50 / 60 Hz (auto detection) \pm 10 %		
Max THDV	15 % (max allowable source voltage distortion)		
Power factor	No practical limit		
Crest factor	3.5:1		
Overload capacity	500 A for 1 sec 1 kA for 100 ms 20 kA for 20 ms		
Inputs	M6 cable lugs (up to 35/50 mm ² or 70 mm ² using narrow palm lugs) Bottom cable entry (or top as specified at time of PO)		
Outputs			
Switching			
Transfer type	Thyristor / SCR - break before make		
Detection	Digital: <1 ms		
Break time	Normal: < 1 ms Max: < ¼ cycle		
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (user settable)		
dV/dt max	800 V / μ s		
MTBF	1,000,000 hours		
Device ratings	600 A, 1800 V, 20 kA for 1 cycle		
Fault current setting	300 % A peak (transfer lockout)		
Protection	Circuit breakers		
Communication and Control			
User interface	LED mimic decal with monochrome graphic LCD Preferred supply and alarm cancel buttons Override supply switch		
Contacts	In: 2 x self wetting transfer controls Out: 5 x voltage free status indicators		
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alerts		
MODBUS RTU (optional)	RS232 / RS485 (option of RS485 using third party adapter)		
Environmental			
Dimensions (H W D)(mm)	1300 x 600 x 300		
Weight	75 - 165 kg (typically)		
Temperature	0 - 45 °C		
Humidity	5 - 90 % non-condensing		
IP rating	IP21		
Compliance			
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval		
Standard warranty	24 months off site parts repair or replacement policy		



High Capacity

The Model K is a 3 or 4 pole, 3-phase free standing static transfer switch.

At just 500mm deep the Model K is ideally suited for installation within corridors or computer/UPS rooms, where space comes at a premium.

Maintenance bypass is standard via a mechanical interlock mechanism.

Key Features

- Fuse-less design
- LED mimic decal with monochrome graphic LCD interface
- One touch transfers
- Integrated maintenance bypass
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts
- High fault current capacity

Available options

- 250 / 300 / 400 / 630 Amp current rating
- 2-pole, single-phase
- 3-pole, 3-phase
- 4-pole, 3-phase
- Top or bottom cable entry

Internal view



Model K Technical Specifications

Power			
Type	2-pole / 1-phase	3-pole / 3-phase	4-pole / 3-phase
Current rating	250, 300, 400 or 630 Amp		
Voltage rating	110, 220, 230 or 230 / 400 V \pm 20% (other voltage ratings available)		
Safe install environment	36 kA for 20 ms, fuse-less design		
Frequency	50 / 60 Hz (auto detection)		
Max THDV	15%		
Power factor	No practical limit		
Crest factor	3.5:1		
Overload capacity	500 A for 30 sec 1 kA for 1 sec 20, 34 or 36 kA for 20 ms (optional)		
Inputs	M8 cable lugs (up to 95/120 mm ² using narrow palm lugs) Bottom cable entry (or top as specified at time of PO)		
Outputs			
Switching			
Transfer type	Thyristor / SCR - break before make		
Detection	Digital: <1 ms		
Break time	Normal: < 1 ms Max: < ¼ cycle		
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (user settable)		
dV/dt max	800 V / μ s		
MTBF	800,000 hours		
Device ratings	600 / 800 / 1200 A @ 20, 28 & 34 kA (as optioned)		
Fault current setting	300% A peak (transfer lockout)		
Protection	Circuit breakers		
Communication and Control			
User interface	LED mimic decal with monochrome graphic LCD Preferred supply switch Override supply switch		
Contacts	In: 2 x self wetting controls Out: 5 x voltage free contacts		
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alerts		
MODBUS RTU (optional)	RS232 / RS485 (option of RS485 using third party adapter)		
Environmental			
Dimensions (H W D)(mm)	1900 x 800 x 500		
Weight	195 kg (typically)		
Temperature	0 - 40 °C		
Humidity	5 - 90 % non-condensing		
IP rating	IP21		
Compliance			
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval		
Standard warranty	12 months off site parts repair or replacement policy		



High Power Density

The Model G is a 3 or 4-pole, 3-phase free standing static transfer switch. With a switching capacity of up to 1600 Amps and a fault current rating of 50 kA, this robust unit will cater for even the most demanding installations. Maintenance bypass is standard via a mechanical interlock mechanism.

Key Features

- High capacity capable
- Fuse-less design
- LED mimic decal with monochrome graphic LCD interface
- One touch transfers
- Integrated maintenance bypass
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts
- High fault current capacity

Available options

- 3-pole or 4-pole 3-phase
- Current rating of 200 through to 1600 Amps
- Top or bottom cable entry

Internal view



Model G Technical Specifications

Power		
Type	3-pole / 3-phase	4-pole / 3-phase
Current rating	200 through to 1600 Amp	
Voltage rating	110, 220, 230 or 230 / 415 V \pm 20% (other voltage ratings available)	
Safe install environment	34 kA optioned to 50 kA for 20 ms, fuse-less design (60 kA available)	
Frequency	50 / 60 Hz (auto detection) \pm 10%	
Max THDV	15% (max allowable source voltage distortion)	
Power factor	No practical limit	
Crest factor	3.5:1	
Overload capacity	125% for 1 hour 150% for 30 sec 34 kA for 20 ms	
Inputs	M10 / M16 cable lugs	
Outputs	Bottom entry (or top as specified at time of PO)	
Switching		
Transfer type	Thyristor / SCR - break before make	
Detection	Digital: <1 ms	
Break time	Normal: < 1 ms Max: < ¼ ms	
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (user settable)	
dV/dt max	800 V / μ s	
MTBF	800,000 hours	
Device ratings	1200 A / 2400 A RMS, 34 kA (or 60 kA), 1 cycle	
Fault current setting	300% A peak (transfer lockout)	
Protection	Circuit breaker	
Communication and Control		
User interface	LED mimic decal with monochrome graphic LCD Preferred supply and alarm cancel buttons	
Contacts	In: 2 x self wetting controls Out: 5 x voltage free contacts	
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alerts	
MODBUS RTU (optional)	RS232 / RS485 (option of RS485 using third party adapter)	
Environmental		
Dimensions (H W D)(mm)	2100 x 1400 x 600	
Weight	295 - 355 kg (typically)	
Temperature	0 - 40 °C	
Humidity	5 - 90 % non-condensing	
IP rating	IP21	
Compliance		
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval	
Standard warranty	12 months off site parts repair of replacement policy	

Comparison Table

		Model A	Model B1	Model B2	Model B3	Model W	Model C	Model H	Model K	Model G
Current Capacity	16 A	●								
	20 A	●								
	32 A	●	●	●		●				
	63 A			●		●	●	●		
	80 A				●	●	●	●		
	100 A				●	●	●	●	●	
	125 A				●		●	●	●	
	160 A				●		●	●	●	
	200 A						●	●	●	●
	250 A						●	●	●	●
	300 A								●	●
	400 A								●	●
	600 A								●	●
	up to 1.6 kA									●
Fault Current	1kA for 20ms	●								
	2kA for 20ms		●	●		●				
	10kA for 20ms				●					
	20kA for 20ms						●	●	●	
	36kA for 20ms						●	●	●	●
	50kA for 20ms									●
Communication & control	Ethernet	optional	●	●	●	●	●	●	●	●
	MODBUS	optional	●	●	●	●	●	●	●	●
	DA26 port		●	●	●	●	●	●	●	●
	LED decal	●	●	optional	optional	optional	●	●	●	●
	LCD & controls		●	optional	optional	optional	●	●	●	●
	Touch screen LCD			●	●	●				

i-STS

Static Transfer Switches



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