Power Paragon

SERIES STS-HIGH SPEED DIGITAL STATIC TRANSFER SWITCH

STS-SP-208Y-150/150 WALL MOUNT

PRODUCT DESCRIPTION

The STS-SP-208Y-150/150 is one in a family of L-3 Power Paragon’s High Speed Digital Static Transfer Switches (Series STS-SP). This 150 amp STS automatically transfers critical loads from a primary power source to an alternate power source in the event of interruption or abnormal conditions.

Designed using silicon-controlled rectifier (SCR) power-switching elements, the STS-SP-208Y-150/150 transfers the critical load between power sources in less than 1/4 cycle upon loss of source – more than 10 times faster than traditional electromechanical switches – appearing seamless to even the most sophisticated loads.

Accomplishing rapid transfer without cross-connecting power sources, the STS-SP-208Y-150/150 ensures that no damage can occur to either power source. This also allows for transfer between two dissimilar power sources – a feature far superior to mechanical open- or closed-transition automatic transfer switches.

The STS-SP-208Y-150/150 has precision digital sense and control circuits that do not require calibration or adjustments (no potentiometers). The sensed analog signals are converted to digital format before being interpreted. All operational parameters are set digitally.

The STS-SP-208Y-150/150 has dedicated logic for the critical interpretation and switching operations. This dedicated logic ensures fast and predictable operation at all times. A micro-controller performs the system level functions such as operator interface (control panel), operating parameter setup, and remote monitoring and control.

FEATURES

- Continuous monitoring of sources
- Automatic transfer operation
- Manual transfer capability
- Redundant logic power
- Transfers between dissimilar sources of power
- Automatic retransfer with adjustable time delay
- Static neutral switching
- Logic interface for bypass/isolation
- Extensive self-monitoring capabilities
- Remote control and monitoring
- Additional RS-485 control and monitoring port
- All adjustable parameters set digitally (no analog adjustments)
- Parameter settings may be password protected
- UL 1008 – recognized
- FCC Part 15 Class A Compliant
- IEEE C62.41(B1)

OPTIONS

- Installation and start-up
- Site testing and training programs
- Spare parts
- Maintenance contracts
- Floor mount enclosure with input/output & bypass isolation

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**STS-SP-208Y-150/150 WALL MOUNT**

**ELECTRICAL CHARACTERISTICS**

Voltage/Frequency  
208/120 VAC, 3-PH, 4W, 60Hz

Current Rating  
150 A

Efficiency  
98% nominal

**OPERATIONAL CHARACTERISTICS**

Sense Time  
less than 2 ms upon loss of source

Sense & Transfer Time  
1/4 cycle upon loss of source

RS-485 Port  
Offers remote status and operation access

User Adjustable Settings  
Overvoltage  
Undervoltage  
Retransfer ON/OFF  
Retransfer delay time  
Phase Angle Error  
Transfer Delay  
Transfer Inhibit (overload)

Panel Indicators  
Summary Alarm/Audible  
Source 1 Active  
Source 2 Active  
Source 1 Preferred  
Source 2 Preferred  
Auto Retransfer On  
Auto Retransfer Off  
Load Power On  
Input Avail-Source 1  
Input Avail-Source 2  
Transfer Inhibit (Overload)

Panel Controls  
Fault Reset  
Lamp Test  
Auto Retransfer On  
Auto Retransfer Off  
Select Source 1  
Select Source 2  
Control Enable (keylock)

**ENVIRONMENTAL SPECIFICATIONS**

Operating  
Temperature Range  
0°C to 40°C

Relative Humidity  
0% to 95% noncondensing

**PHYSICAL SPECIFICATIONS**

Weight  
120 lbs /77.3 kg

Dimensions  
H 35.0 in. /89 cm  
W 21.0 in. /53.3 cm  
D 12.7 in. /32.3 cm

**STATIC TRANSFER SWITCH**

Dedicated logic provides the fastest and most reliable operation for the critical switching functions, while the microprocessor attends to system level functions.