

# STATIC TRANSFER SWITCH STATIC NEUTRAL SWITCHING



## STS-SP-120/208-150/150S

### PRODUCT DESCRIPTION

- Meets the demanding requirements of FAA centers across the U.S.
- Modular design allows power electronics to be separated from the bypass and isolation system
- Transfers critical loads in less than 1/4 cycle – 10 times faster than electromechanical switches – without crossconnecting power sources
- Full bypass capability provided
- Appropriate for both commercial and military air traffic Control applications

Now, commercial and military air traffic control centers around the world can have ultrahigh-speed digital static transfer switches that meet the most demanding power-protection standards. Already installed in FAA Centers throughout the U.S., STS-SP Series of switches from L-3 Power Paragon includes models appropriate for both in-route and terminal applications. Because the power electronics can be separated as a module from the bypass and isolation system, maintenance is fast and easy.

The super high-speed transfer capability of the STS-SP switches – less than 1/4 cycle upon loss of source– appears seamless to even the most sophisticated electronic equipment. And since power transfer occurs without any cross-connection of power sources, no damage can occur to either source. Also like traditional switches, the STS family can transfer loads between two dissimilar power sources.

Based upon precision digital circuitry, the STS-SP provides reliable operation without calibration or adjustments. It is the first real answer to the power-protection requirements of the aviation industry.

### 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
- Manual bypass/isolation
- Plug-in circuit breakers
- Extensive self-monitoring capabilities
- Data logging
- 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 – listed
- FCC Part 15 Class A Compliant
- IEEE C62.41(BI)



Series STS-SP  
Static Transfer Switch  
(CLIN 0001)

### OPTIONS

- Installation and start-up
- Site testing and training programs
- Spare parts
- Maintenance contracts

# STATIC TRANSFER SWITCH STATIC NEUTRAL SWITCHING



## STS-SP-120/208-150/150S

### ELECTRICAL CHARACTERISTICS

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

Current Rating  
Each Phase  
150 A

Efficiency  
99% nominal

### ENVIRONMENTAL SPECIFICATIONS

Operating  
Temperature Range 0°C to 40°C  
Relative Humidity 0% to 95% noncondensing

### PHYSICAL SPECIFICATIONS

Weight 600 lbs /273 kg  
Dimensions H 80.0 in /203.2 cm  
W 21.0 in /53.3 cm  
D 22.6 in /57.5 cm

### OPERATIONAL CHARACTERISTICS

Sense Time  
less than 2 msec 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:  
Select preferred source  
Overload  
Peak overload  
Overvoltage  
Undervoltage  
Retransfer ON/OFF  
Retransfer delay time  
Phase angle error  
Transfer delay  
Transfer inhibit (overload)

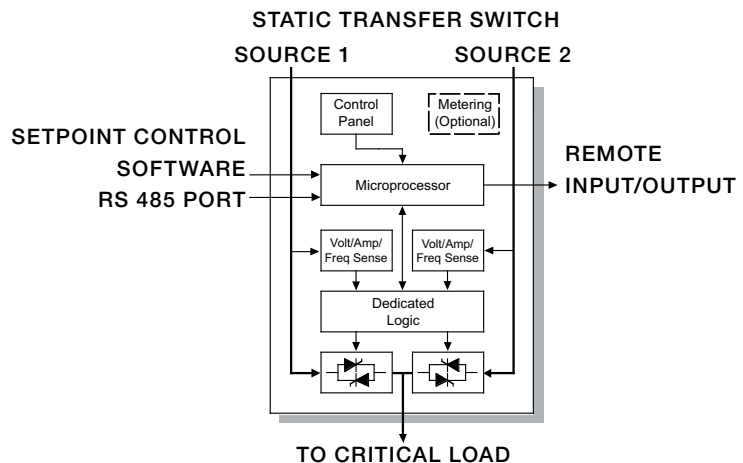
#### Panel Indicators:

Summary alarm/audible  
Phase status  
Input avail source 1  
Input avail source 2  
Source 1 active  
Source 2 active  
Source 1 preferred  
Source 2 preferred  
Auto retransfer on  
Auto retransfer off  
Load power on  
Breaker status

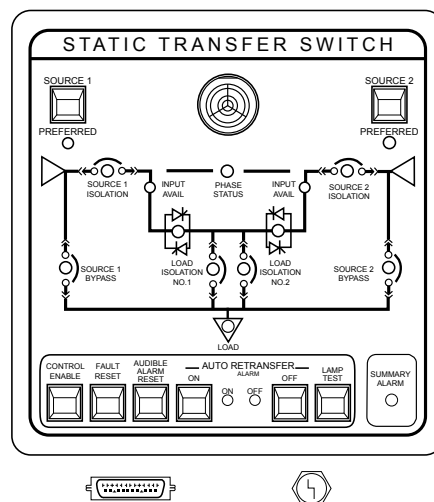
#### Panel Controls:

Audible alarm silence  
Fault reset  
Lamp test  
Auto retransfer on  
Auto retransfer off  
Select source 1  
Select source 2  
Control enable (keylock)

Input and Output Cable Entry – Bottom



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



### Power Paragon

901 E. Ball Road  
Anaheim, CA 92805  
Tel: 714.956.9200  
Fax: 714.956.5397  
www.info.ppi@L-3Com.com



Power Paragon