**STATIC TRANSFER SWITCH - STATIC NEUTRAL SWITCHING**

**STS-SP-120/208-150/150S (CLIN 0001)**

**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 cross-connecting 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 (B1)

**OPTIONS**

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

STATIC TRANSFER SWITCH - STATIC NEUTRAL SWITCHING

STS-SP-120/208-150/150S (CLIN 0001)

ELECTRICAL CHARACTERISTICS

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

Current Rating
Each Phase
150 A

Efficiency
99% nominal

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)

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

Input and Output Cable Entry – Bottom

STATIC TRANSFER SWITCH

TO CRITICAL LOAD

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 90805-5916 U.S.A.
Tel: 1-800-777-4638
Fax: 1-714-956-5397
email: info.ppi@L-3Com.com

© Copyright, L-3 Communications/Power Paragon. All rights reserved. Appropriate for public release as defined in EAR Part 734.7(a). BN1207950 5/10