STS Series



Static Transfer Switch (Thyristor Based)

SPE STS Series 1-Phase & 3-Phase Thyristor controlled Static Transfer Switches are used to ensure instantaneous transfer between two independent AC power sources to critical electrical loads. The operations are continuously monitored by DSP controller. In the event of primary source failure, the backup (alternate) source will be automatically connected (transferred).



APPLICATIONS

- Critical IT operations
- Telecommunication centers
- Network operations centers
- Fiber optic nerve center
- Process control
- Data centers
- Airport security system
- Commercial buildings
- Power Utilities / Generation plants
- Automated manufacturing / Assembly Lines

FEATURES

- Smart Control and high reliability with DSP (Digital Signal Processor)
- Thyristor controlled switching (fully static)
- Automatic and Manual transfer modes
- 2x16 character LCD display, showing measurements, status and alarm messages
- Graphic touchscreen user interface module (HMI) *Option
- LED display for easy observation of transfer switching status
- Audible alarm
- LED Test
- Internal Maintenance bypass switch
- Internal redundant and monitored power supplies
- Calibration of measurements from front panel
- Language selection from front panel (English / German / Turkish / Dutch / Portuguese)
- Protection: Input High / Low, Output High / Low, Over Temperature, Short Circuit
- Programable Operation Parameters (Password Protection)
- Common alarm relay output
- Monitor and control via RS-232 (*RS-485 Modbus option)
- 200 event log records with date with time stamping
- Internal cabinet Lighting and Space Heater *Option











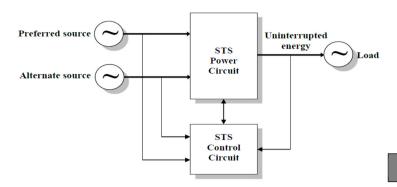
SPECIFICATIONS – SINGLE PHASE STS

MODELS	STS 1016	STS 1032	STS 1050	STS 1063	STS 1100	STS 1150				
POWER (A)	16	32	50	63	100	150				
INPUT										
Input Voltage	110V / 120V / 220V / 230V / 240V									
Nominal Frequency	50 or 60 Hz									
OUTPUT										
Output Voltage	110V / 120V / 220V / 230V / 240V									
Transfer Time	Synchronous transfer => < 1/4 period (cycle), 5.0ms @ 50Hz, 4.2ms @ 60Hz									
Efficiency	> 98 %									
Overload Capability	150% for 1-min, 250% for 20ms									
Source Voltage Distortion	10% maximum									
Operation Temperature	-5°C – 50°C									
Storage Temperature	-20°C – 70°C									
Max. Altitude	2000 metre									
Dry Contact	1x Dry Contact output for common alarm (*Option: 4x Dry Contacts)									
Communication	Standard RS-232 (*Option: RS485 Modbus)									
GENERAL FREATURES										
Alarm Indications	Overload, Over temperature, Fuse Failure, Maintenance Switch Active									
Event Log	200 event logs with real time & date stamping									
LED Indications	(Source1 Good, Source2 Good, Source1 On, Source2 On, Output OK,									
	Common Alarm, Source 1 Maint, Sourc 2 Maint, Syncronisation Bad)									
Alarm	Audible Alarm									
Protection	Load high current inhibit function – Inhibits emergency transfer in case of short circuit									
Power Supplies	Redundant Internal Power Supplies									
Compliance	IEC 62310 ; EMC EN 55011, EN 61000-2-2, 61000-4-2, -3, -4, -5, -6, -8									

PE STS Series Single Phase Static Transfer Switch. Specifications can change without notice. Datasheet v1.1







SPECIFICATIONS – THREE PHASE STS

MODELS	STS 3050	STS 3100	STS 3150	STS 3200	STS 3400	STS 3500	STS 3600	STS 3800		
POWER (A)	50	100	150	200	400	500	600	800		
INPUT										
Input Voltage		380	/ 400 / 415	Vac ; 3 (3-p	oole) - 3+N	(4-pole) (op	tional)			
Nominal Frequency			50 or	60 Hz +/-1	0 % (adjust	able)				
OUTPUT										
Output Voltage	380 / 400 / 415 Vac ; 3 (3-pole) - 3+N (4-pole) (optional)									
Transfer Time	Synchronous transfer => < 1/4 period (cycle), 5.0ms @ 50Hz, 4.2ms @ 60Hz									
Efficiency	▶ 99 %									
Overload Capability	150% for 1-min, 250% for 20ms									
Source Voltage Distortion	10% maximum									
Operation Temperature	-5°C – 50°C									
Storage Temperature	-20°C – 70°C									
Max. Altitude	2000 metre									
Dry Contact	1x Dry Contact output for common alarm (*Option: 4x Dry Contacts)									
Communication	Standard RS-232 (*Option: RS485 Modbus)									
GENERAL FREATURES										
Alarm Indications	Overload, Over temperature, Fuse Failure, Maintenance Switch Active									
Event Log	200 event logs with real time & date stamping									
LED Indications	(Source1 Good, Source2 Good, Source1 On, Source2 On, Output OK,									
	Common Alarm, Source 1 Maint, Sourc 2 Maint, Syncronisation Bad)									
Alarm	Audible Alarm									
Protection	Load high current inhibit function – Inhibits emergency transfer in case of short circuit									
Power Supplies	Redundant Internal Power Supplies									
Compliance	IEC 62310-1,-2,-3; EMC EN 55011, EN 61000-2-2, 61000-4-2, -3, -4, -5, -6, -8									

PE STS Series Three Phase Static Transfer Switch. Specifications can change without notice. Datasheet v1.1

