

n-STS Static Transfer Switch

Alpha
Power Systems

Single-Phase

32A, 63A, 115A, 120A



Product

n-STS single-phase is part of the EPI STS range and offers solutions suitable for protecting single-phase loads with different power ratings. n-STS is available in three size, 32A, 63A and 120A, and is therefore able to satisfy various requirements for the protection of single-phase loads.

FLEXIBILITY OF USE

All n-STS versions are designed with criteria that facilitate on-site installation as well as diagnostics, control and maintenance operations. All models are equipped with a manual bypass and the hot swap function allows for rapid corrective interventions by non-specialized personnel in the event of faults.

COMPLETE DIAGNOSTICS

All n-STS versions are equipped with 32-character LCD displays and control panels with multi-function keys. This allows for rapid and intuitive monitoring of supply readings, switch status and environmental conditions. n-STS is equipped with three standard programmable dry contacts, an input for emergency shutdown, a 232 serial connection and a slot for housing the expansion board, thus ensuring complete availability of interface solutions for remote control and monitoring.

LOAD PROTECTION

With n-STS transfer switch loads, are protected against critical environmental situations and mains power interference. Microprocessor control and the use of thyristor static switched ensure continuous monitoring of the power supply sources and reduced switching times between the two sources in the event of a fault. The constant monitoring of the output current allows for the rapid identification of any short-circuit currents in the consumers, preventing short-circuits from propagating to the other loads. n-STS is equipped with thermal-magnetic protection for the two sources, ensuring rapid intervention in the event of faults and integrated back feed protection. n-STS ensures switching times between the two power sources of less than a quarter of a cycle, both in the event of manual switching and in the event automatic switching triggered by a fault in the power source.

Features

- Increased power quality
- Increased noise reduction
- Double output terminal
- Power black-out protection
- Power redundancy
- Automatic static switching
- Remote Monitoring input power source
- Easy static and mechanical transfer to input source
- Remote management of the power events
- Power event logging
- Output current capability (1000% for short time)
- 2 years warranty
- 10 years spare parts support
- 19" rack cabinet
- Manufacture according to EC Directive; EN62310

Module Model	n-STS232 / n-STS132	n-STS263 / n-STS163	n-STS2115 / n-STS1115	n-STS2120 / n-STS1120
Nominal Current	32A	63A	115A	120A
Input				
Nominal Voltages(SourcesS1/S2)	220/230/240VAC, single phase + N			
Input Voltage Tolerance	180VAC-264VAC(selectable)			
Switched Type (2pole model)	Ph + N (two poles)			
Switched Type (1pole model)	Ph (one pole)			
Nominal Frequency	50/60Hz			
Input Frequency Tolerance Range	±10%(selectable)			
Distribution Compatibility	IT, TT, TNS, TNC			
Operating Specifications				
Transfer Type	"Break Before Make"(no overlapping of sources)			
Synchronization phase shift	10 degrees			
Relays default settings	RL1 - S1 NOT OK, RLS- S2 NOT OK, RL3- COMMON ALARM			
Intervention Method	Hot swap function			
Available Transfer Method	Automatic/Manual/Remote			
Transfer Time (following source failure)	≤4msec for synchronous sources ≤10msec for non-synchronous sources			
Output current crest factor	3:1			
Environment Specifications				
Noise at 1 meter from front	<50dBA			
Storage Temperature	-10°C up to +50°C			
Operating Temperature	0°C- 40°C			
Relative Humidity	90%(non-condensing)			
Max Installation Height	1000m @nominal power (-1%power per 100m above 1000m); - Max 4000m			
Reference Standard	EN62310-1(safety), EN62310-2(electro-magnetic compatibility)			
Options				
Options	Monitoring software, SNMP, Modbus			
Info for Installation				
Weight (kg)	12	13	20	20
Dimension (W*D*H)	19**720*2U		19**720*3U	
IP Rating	IP20			

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