ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

SPX-21U

SPX-Series Static Power Switching Unit (Automatic Transfer Switch)



Overview

The new Ashe SPX-21 Static Power Transfer Switches are a range of microcontroller based thyristorized AC power switching units. The instrument is used as a watchdog for the AC mains power line in industries. It accepts two single phase power feeders as input lines. Depending upon the preset selections for load voltage and current limits, the SPX-21 seamlessly switches one of the two input sources to the output.

The Static Power SPX-21 Switch provides a selection of one primary feeder Main Power Source out of two input power feeders. Further, it monitors the voltage and current continuously and sequentially displays these values on the front panel digital display. The instrument has a membrane touchpad on the front panel through which one may set all the parameters. An active LED mimic indicates the status of the input and output signals.

The Ashe SPX-21 Power Switching unit has intelligent Auto-Recovery facility – hence when power is restored, the instrument automatically returns to the primary power feeder. It is offered in slim and aesthetically designed enclosures of 1U / 19" Rack mount execution and consumes minimal panel space.

The Ashe SPX-21 is available in both single pole and double pole options. The design uses state of the art techniques in high speed bump-less power switching, providing excellent voltage monitoring, high switching efficiency and low power dissipation. It is offered in a wide range of ultra power ratings. The SPX-21 unit is designed for continuous full load operation in tough industrial environments, while ensuring the protection of the powered equipment.

The instrument provides an RS485 Modbus RTU interface for communicating input/output status and real-time system parameters to a centralized control or monitoring system. In addition, an integrated relay offers clear status indication of transfer events between the primary and secondary power sources.

This product is backed by a full two-year warranty, covering all manufacturing defects and workmanship issues under normal operating conditions.

Specifications

Model	ASHE SPX-21U
Type	Microcontroller-based Thyristorized Static Power Switching unit for seamless AC Voltage switching, with digital indication and data communication.
Inputs	Two nos. AC Voltage inputs.
Output	One AC Voltage output (depending on input status).
Voltage Channel A	110 OR 230 VAC, Single phase 50/60 Hz (to be Pre-specified).
Voltage Channel B	110 OR 230 VAC, Single phase 50/60 Hz (to be Pre-specified).
Switching Poles	Single/Double pole (to be Pre-specified).
Neutral	Common in Single pole / Isolated in Double pole.
Priority	Precedence to Channel A. If channel A fails, power source will be seamlessly switched to Channel B. When Channel A is restored, power source will be switched back to Channel A.
Current Switching	Up to 21 Ampere load (+10% for 5sec).
Data Communication	RS485 on Modbus RTU.
Selection Options	Primary Source selection, Range for Voltage watch-dog, Range for Current watch-dog, etc.
Switching Time	8-12 mS (Typical).
Alarm Output	Relay changeover contacts on power switch-over.
Indications	a) 3-digit seven-segment LED display for Input indications and menu selections. b) Active LED Mimic for status indications of Input sources and Output condition.
Settings	By four-key Membrane Touchpad on front panel.
Switching Devices	Solid State Relays
Execution	19" Rack Mounting 1U
Dimensions	44.5 x 483 x 185 mm [H x W x D]
Weight	Approx 2 kg.
Operating Temperature	0 to 55^{0}C.

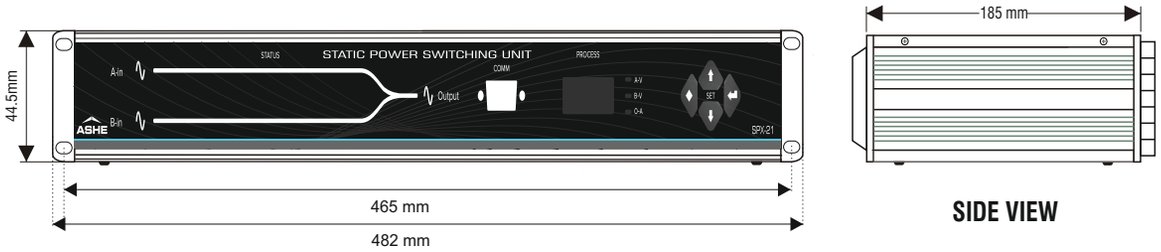
Features

- Single pole or double pole (optional)
- Microcontroller based Thyristorized design
- Load Rating of up to 21 Ampere (+10% for 5sec).
- Ultra High-speed switching for seamless power transfer 8-12 mS (Typical)
- Voltage and Current Watchdog for power feeders
- Automatic recovery after power restoration
- Various AC Power Inputs (Pre-specified)
- Configurable load current and Input voltage limits
- RS485 on Modbus RTU data communication
- Very low power consumption and heat dissipation
- RFI and EMI filters provided
- Digital metering for both Input Voltages and bad current
- Control Relay output for power fail alarm
- High Noise immunity
- Aesthetically designed slim execution
- Two-year Performance Warranty
- Proven track record of successful site installations

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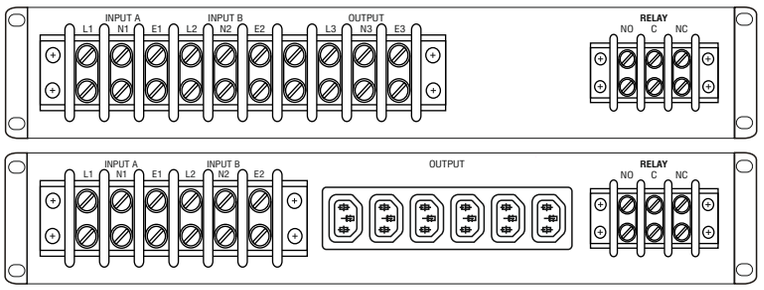
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Dimensional Diagram



FRONT VIEW

SIDE VIEW



Option 1
(SCREW TERMINAL)

Option 2
(POWER SOCKET)

REAR VIEW

How To Order

	STATIC POWER SWITCHING UNIT (Automatic Transfer Switch)	**SPX**						
	Configuration and add-on options							
1	**LOAD CURRENT**							
▸	21 Ampere		21					
2	**EXECUTION**							
▸	19" Rack Mounting - 1U, 2U & 3U			U				
▸	Din Rail (upto 31 Ampere)			D				
3	**INPUT VOLTAGES**							
▸	110 VAC 50/60 Hz				H			
▸	230 VAC 50/60 Hz				A			
4	**SWITCHING POLE**							
▸	Single (only for Din Rail Mount)					S		
▸	Dual (only for Rack Mount)					D		
5	**TERMINATION**							
▸	Screw Terminals (upto 101 Ampere)						S	
▸	Power Sockets (upto 31 Ampere only)						P	

Our Other Products



FLOW TOTALIZER



SIGNAL ISOLATORS & TRANSDUCERS



TEMPERATURE SCANNER



FLAMEPROOF INSTRUMENTS



STATIC POWER SWITCHES

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