



# STATIC POWER SWITCHING UNIT

## SERIES SPX



### OVERVIEW

The new Ashe Series SPX 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 seamlessly switches one of the two input sources to the output.

The Static Power Switch provides a selection of one primary feeder 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 switchpad 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 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 & 2U/19" rack mount execution and consumes minimal panel space.

The design uses state of the art techniques in high speed bump-less power switching, providing excellent voltage monitoring, high efficiency and low power dissipation. It is offered in a wide range of output voltages and power ratings. The Series SPX units are designed for continuous full load operation in tough industrial environments, while ensuring the protection of the powered equipment.

All ASHE range of instruments carry a lifetime warranty for design and workmanship.

### SPECIFICATIONS

<b>Model</b>	SPX-21 [21 Ampere], SPX-31 [31 Ampere], SPX-41 [41 Ampere] SPX-51 [51 Ampere]
<b>Type</b>	Microcontroller-based Thyristorized Static Power Switching unit for seamless AC Voltage switching, with digital indication.
<b>Inputs</b>	Two nos. AC Voltage inputs.
<b>Output</b>	One AC Voltage output (depending on input status).
<b>Voltage Channel A</b>	110 V or 230 VAC, single phase, 45 to 65 Hz.
<b>Voltage Channel B</b>	110 V or 230 VAC, single phase, 45 to 65 Hz.
<b>Priority</b>	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.
<b>Current Switching Selection Options</b>	21 / 31 / 41 / 51 Ampere. Primary Source selection, Sound On/Off, Range for Voltage watch-dog, Range for Current watch-dog, etc.
<b>Switching Time</b>	< 25 mSec.
<b>Alarm Output Indications</b>	Relay changeover contacts on switch-over. 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.
<b>Settings</b>	By four-key Membrane Switchpad on front panel.
<b>Switching Devices</b>	Opto-Triacs.
<b>Execution</b>	19" Rack mounting - 1U & 2U.
<b>Enclosure</b>	Extruded Aluminum housing.
<b>Dimensions</b>	44.5 (H) / 89 (H) x 483 (W) x 200 (D) mm.
<b>Colour</b>	Silver + Black.
<b>Weight</b>	Approx 1.5 kg to 4 kg.
<b>Ambient Temp.</b>	0 to 50 °C.

### FEATURES

- Microcontroller based Thyristorized design
- Load Ratings of 21, 31, 41, 51 Ampere
- Ultra High-speed switching for seamless power transfer
- Watchdog for power feeders
- Automatic recovery after power failure
- Various AC Power Inputs.
- Configurable load current and voltage
- Relay changeover on switch-over
- Very low power consumption and heat dissipation
- RFI and EMI filters provided
- Compact and rugged 1U / 2U enclosures
- Digital metering for Voltage, Current and Frequency
- Control Relay output for remote power fail alarm
- High Noise immunity.
- Aesthetically designed slim execution
- Proven record of hundreds of installations
- Lifetime warranty on design and workmanship



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