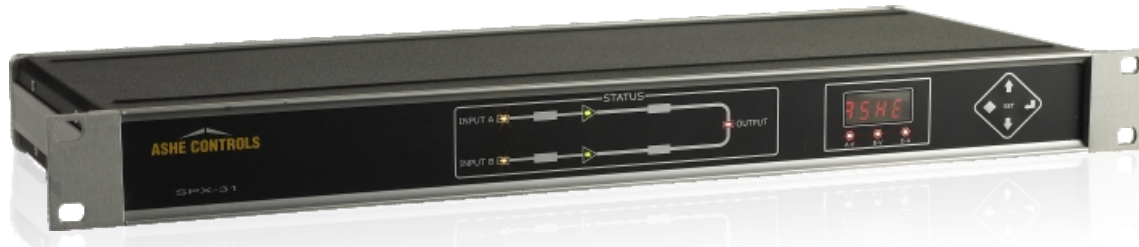


STATIC POWER SWITCHING UNIT

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

Model	SPX-21 [21 Ampere], SPX-31 [31 Ampere], SPX-41 [41 Ampere] SPX-51 [51 Ampere]
Type	Microcontroller-based Thyristorized Static Power Switching unit for seamless AC Voltage switching, with digital indication.
Inputs	Two nos. AC Voltage inputs.
Output	One AC Voltage output (depending on input status).
Voltage Channel A	110 V or 230 VAC, single phase, 45 to 65 Hz.
Voltage Channel B	110 V or 230 VAC, single phase, 45 to 65 Hz.
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	21 / 31 / 41 / 51 Ampere.
Selection Options	Primary Source selection, Sound On/Off, Range for Voltage watch-dog, Range for Current watch-dog, etc.
Switching Time	< 25 mSec.
Alarms	Red Flashing LED for faults.
Indications	a) 3-digit seven-segment 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 Switchpad on front panel.
Switching Devices	Opto-Triacs.
Execution	19" Rack mounting - 1U & 2U.
Enclosure	Extruded Aluminum housing.
Dimensions	44.5 (H) / 89 (H) x 483 (W) x 200 (D) mm.
Colour	Silver + Black.
Weight	Approx 1.5 kg to 4 kg.
Ambient Temp.	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
- 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