



# SXN1230

## **SURGE ELIMINATOR & POWER CONDITIONER**

- *Advanced Series Mode*<sup>®</sup> Surge Protection
- *Impedance Tolerant*<sup>®</sup> EMI/RFI Filtering

The SurgeX SXN1230 provides guaranteed surge elimination for dedicated AC power lines. The SXN1230 is packaged in a universally accepted NEMA steel enclosure and meets regulations for use in ceiling plenums. The SXN1230 is 20-amp load capable and is specifically designed for international use in 230 volt systems with single phase power requirements. The unit features both common mode and normal mode Impedance Tolerant EMI/RFI filtering for a comprehensive power conditioning solution.

Our proven, robust technologies and unmatched level of certification make SurgeX essential for Pro AV, IT, Medical, Government, Military and all mission critical applications.

SurgeX Advanced Series Mode technology is superior to conventional MOV circuitry or MOV-Hybrid designs and is completely non-sacrificial. Our zero let-through technology provides the most reliable protection available. It stops all surges up to 6,000 volts (unlimited surge current) without producing harmful side effects such as ground contamination or common-mode disturbances.



**SURGE<sup>X</sup>**  
International

Professional AC Power Products  
[www.surgexinternational.com](http://www.surgexinternational.com)

10-YEAR WARRANTY  
**POWER PROTECTION YOU TRUST**

# SXN1230

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### SPECIFICATIONS

**Load Rating:** 20 amps @ 230 volts, 50Hz / 60Hz (single phase)

**Power Requirement (no load):** 3 watts.

**Surge Let-Through Voltage (6000-volt surge):**  
0 volts.

**IEC/EN:** 61643-1

**Performance Rating:** Grade A, Class 1, Mode 1.

**EMI/RFI Filter, Normal Mode (50-ohm load):** 40dB  
@ 100 kHz; 50 dB @ 300 kHz; 50 dB @ 3 MHz; 50  
dB @ 30 MHz

**EMI/RFI Filter, Common Mode (50-ohm load):**  
18dB @ 300 kHz; 30 dB @ 1 MHz; 50 dB @ 5 MHz;  
50 dB @ 20 MHz

**Maximum Applied Surge Voltage:** 6000 volts.\*

**Maximum Applied Surge Current:** Unlimited, due to  
current limiting.\*

**Maximum Applied Surge Energy:** Unlimited, due to  
current limiting.\*

**Endurance (C62.41-1991 Category B3 pulses):**  
1 kV>500,000; 3 kV>10,000; 6 kV>1000.

**Dimensions:** 25.4 x 20.3 x 10.7 cm  
10.0" H x 8.0" W x 4.0" D

**Weight:** 4.5Kg (10 lbs)

**Temperature Range:** 5° to 35° C

**Humidity Range:** 5% to 95% R.H., non-condensing.

\*1.2 x 50  $\mu$ s pulse, industry standard combination wave surge,  
as per IEEE C62.41

### TECHNICAL DESCRIPTION

The SXN1230 shall be housed in a magnetic shielding NEMA steel enclosure for interior installations. It shall operate from 230 volts AC 50Hz / 60 Hz and have a barrier strip accessible through knock-outs in the enclosure for hardwiring power input and output connections. Overall dimensions shall be 10.0" H x 8.0" W x 4.0" D. Weight shall be 4.5 Kg / 10.0 pounds.

The SXN1230 shall have a load rating of 20 amps at 230 volts, a self-test circuit with visual indicator and provide EMI/RFI filtering. It shall meet Grade A, Class 1, Mode 1 guidelines for power line surge suppressors and withstand at least 1000 occurrences of surge pulse voltages up to 6000 volts. The SXN1230 shall be tested and certified to IEC/EN 61643-1.

### FEATURES

- Magnetic shielding steel enclosure
- *Advanced Series Mode* surge protection
- *Advanced Impedance Tolerant* EMI/RFI filtering
- Self-test circuit with visual indicator
- 10-year warranty

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This product, including its components and/or processes carried out thereby, are covered by one or more of the following:  
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