

Branch Circuits

Advanced power protection at the service panel



Have you ever wanted complete surge elimination and mains power conditioning at the branch circuit level, eliminating the need for additional protection downstream? We have the solution.

The SurgeX Branch Circuit product line provides guaranteed surge elimination and conditioning for audio, video, and mission critical equipment at the service panel. Available in three configurations, our unique solutions are built with professional-grade NEMA magnetic shielding steel enclosures that meet code for use at the service entrance, sub-panels, and in-ceiling plenums.

They are engineered with Advanced Series Mode surge elimination and mains power conditioning technologies to provide top-of-the-line protection. Superior to conventional MOV circuitry or MOV-hybrid designs, they completely eliminate surge energy up to 6,000 Volts without producing harmful side effects such as earth contamination or common-mode disturbances. Completely non-sacrificial and never needing reset, they provide the most reliable protection available.

Our branch circuit line also features both common mode and normal mode impedance tolerant EMI/RFI filtering for a complete mains power conditioning solution.

Features:

- NEMA rated magnetic shielding steel enclosure
- Advanced Series Mode[®] surge elimination
- Impedance Tolerant[®] EMI/RFI filtering
- SurgeX ICE[®] (Inrush Current Elimination)
- Self-circuit with visual indicator



Inside the SXN-1230

	Model Number	Description
	SXN-1230	Branch Circuit Surge Eliminator, multi circuit, 20A/230 V

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Technical Specifications

SXN-1230

Load Rating:	20 Amps per circuit @ 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, NormalMode (50-ohm load)	40dB@ 100 kHz; 50 dB @ 300 kHz; 50 dB @ 3 MHz; 50dB @ 30 MHz
EMI/RFI Filter, CommonMode (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 μ s pulse, industry standard combination wave surge, as per IEEE C62.41

Specifications subject to change without notice.