



The **SM** is a parallel suppressor for use in commercial facilities. It is appropriate for use at either a service entrance or a distribution panel. At the service entrance the SM provides protection against lightning or switching transients from the utility system. At a distribution panel, it provides protection against transients generated on other branch circuits within the facility. SM models suppress and filter damaging transients up to 160kA. SM surge suppressors do not incorporate fusing elements that restrict the unit's ability to repetitively suppress transients up to its full rated surge capacity.

Applications

Critical loads requiring a medium level of protection:

- Machine shops
- CNC operating equipment
- Retail facilities
- Offices
- Manufacturing facilities
- Schools
- Telecommunication facilities



SM

PARALLEL SURGE PROTECTION DEVICE

Features

UL 1449 2nd Edition, CSA and UL 1283 Listed Linear Array Design

Distributes and shares transient energy among the MOVs

Modes of Protection

Normal mode (L-N, L-L) and common mode (L-G, N-G)

Individual MOV Fusing

Ensures uninterrupted protection at high surge current levels with fusing coordinated to MOV capacity

MCOV Greater than Line-to-Line Voltage

Utilizes LEA's unique Inherently Safe MOV Technology

Provides continuous, safe protection during extreme overvoltages

Capacitive Filtering

Provides extended range filter to reduce noise

Bus Bar Interconnection

Reduces impedance for maximum clamping performance

Bolt-on Replacement Modules Per Mode

Ensures positive connection and allows for easy replacement

Redundant Indicator Lights

Provides visual indication of protection status on both modules and enclosure door

Form C Dry Contacts Standard

Provides remote monitoring capability

Weatherproof Enclosure with Compression Lock

Provides additional safety and versatility

Repetitive Impulse Tested

Ensures maximum performance and longevity

(Category C3 impulses per ANSI/IEEE C62.41 – 1991 and ANSI/IEEE C62.45-1992)

Long Duration Stress Tested

Provides maximum protection during sustained transients per ANSI/IEEE C62.41 10/1000us current waveform

Single Impulse Tested by Independent Lab

Provides verification of surge current capability

FIVE YEAR Unlimited Warranty Standard

Provides unlimited replacement during the warranty period

SURGE SUPPRESSION SPECIALISTS

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PARALLEL SURGE PROTECTION DEVICE

Model	Surge Current Capacity Per Phase	Modes of Protection	Surge Current Capacity Per Mode	Category Rating and Exposure Level	Dimensions and Weight
SM	160kA	Normal: L-N Differential: L-L Common: L-G, N-G	L-N: 80kA L-L: 160kA L-G: 80kA N-G: 80kA	Category C3 High Exposure	13 X 13 X 8 (10 LBS)

NOTE: Consult factory for clamping voltage data.

Standard Voltage Configurations	Suffix	Available Options	Electrical Specifications
120/240-SP 120/208-3Y 277/480-3Y	G	Remote Status Monitor	Nominal Operating Voltage: 120 – 277VAC Frequency Range: 47 – 63 Hz Response Time: <1 nanosecond Enclosure Type: NEMA 12 is standard Mounting: Surface mount

Standard Features

Form C Dry Contacts

Ordering:

Please specify model number, voltage configuration and option suffix as needed.
(Sample Model Number: SM-120/208-3Y)



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