Medium Voltage ST-LSEA

160 kA / Phase

The Sinetamer Industrial Grade, Medium Voltage Secondary Arrester TVSS models are specifically designed for heavy duty applications including: Chemical & Pharmaceutical Plants, Waste & H_2O Treatment Facilities, Mining, Petroleum & Oil Refineries as well as other Large Scale, Automated, Heavy Commercial or Industrial Production Lines.

General

Protected Modes:	Directly connected*/ Bidirectional, True, ALL-Mode (Normal & Common Mode) suppression componentry
Technology:	Thermally fused, Multi-parallelized, All solid-state, Bipolar, Auto-restoring, MOV suppression arrays
Withstand:	High Energy Exposure ANSI/IEEE C62.41.1 & .2-2002 "C3" (20 kV x 10 kA) Location/Category Rating
Connection Means:	5 ft (60 in) of #6 AWG, 5 kV cable, 4 conductors: L_A, L_B, L_C & Ground
Mechanical Interface:	2" diameter threaded Meyers hub & external mounting flanges
Environmental:	NEMA 12, 4, 4X, Steel & Stainless (XS) enclosures
Standard Size:	14" x 16" x 6", (L x W x H) typical
Weight:	66 lbs (typical)

Design & Performance

Peak Surge Capacity:	80 kA/Mode (L-L) & (L-G), (160 kA/ Phase PSC)
Protection Ranges:	1 kV to 4.2 kV in seven model voltage ranges
Frequency:	47 – 420 Hz. (60 Hz. typical.)
Interrupt Means:	30 A. Ferraz A055F1D0R0-30E line fusing required; (see model Installation Instructions)
Applications:	Multiple ANSI/IEEE C62.41.2 Location (Category A, B & C) & high energy suppression uses
Thermal Integrity:	Expansion tolerant arrays
Temperature Range:	-40° C to +80° C; (-40° F to +176° F)
% RH :	0 – 100% (non-condensing)

Quality & Safety

Manufacturer & Product Qualifications:	ISO-9001 NQA QMS
Compliance:	ANSI/IEEE C62.11
Assurance:	All models electrically quality checked at factory
Life Safety:	Safety Warning Labeling

Key Features

- **Discrete *"All Mode"* Circuitry: Directly Connected Protection Elements in *"All Modes"* (6 modes for 3 phase, 4 wire Delta circuits) as recommend by IEEE Std. 1100-2005**
- **5 Year Free Replacement Warranty**
- **Circuit Encapsulation**
- **< 1 Nanosecond Response Time**
- **Multistage, Optimal Response Circuitry**
- **Variety of enclosure types**
- **Individual Thermally Fused Components**
- **ISO 9001 Manufactured Quality**
- **Remote LED option available**
- **Dry Relay Contact for Remote monitoring or connection with RTU or SCADA systems**

Made in the USA

ISO 9001 MANUFACTURER ISO 9001:2000

Medium Voltage AC Power Panel Units

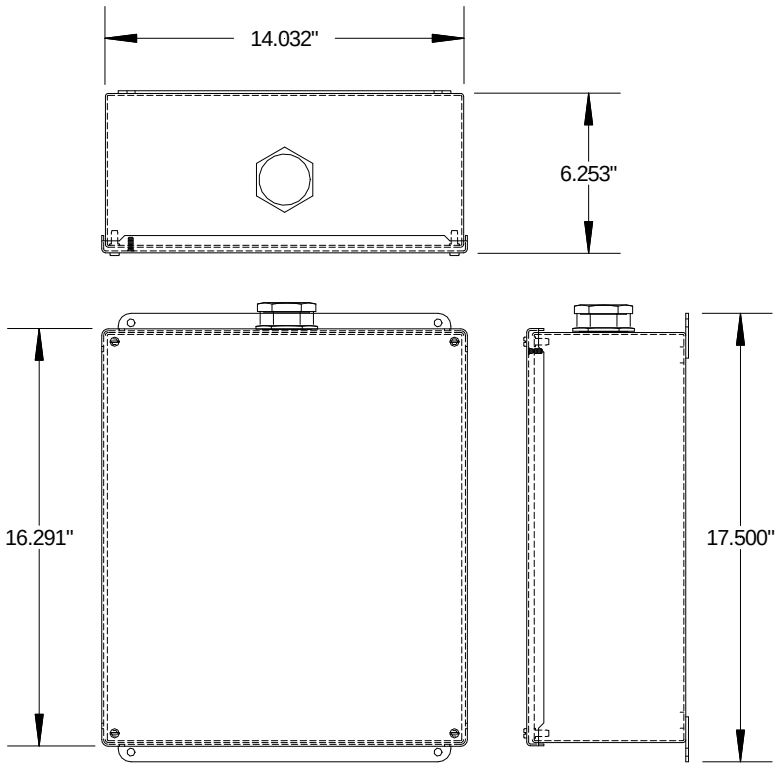
Energy Control Systems, P.O. Box 330607 Ft. Worth, TX 76163 – 817.483.8497 – Fax: 817.572.2242

Model Number	Nominal Operating Voltages	Maximum Continuous Operating Voltage
ST- LSEA-MV3N1500	Up to 1,500 Vrms	1,850 Vrms
ST- LSEA-MV3N2000	Up to 2,000 Vrms	2,550 Vrms
ST- LSEA-MV3N2500	Up to 2,500 Vrms	3,000 Vrms
ST-LSEA-MV3Y2500	L-N 1500 L-L 2500	1,725 Vrms 3,000 Vrms
ST- LSEA-MV3N3000	Up to 3,000 Vrms	3,750 Vrms
ST- LSEA-MV3N3500	Up to 3,500 Vrms	4,550 Vrms
ST- LSEA-MV3N4160	Up to 4,160 Vrms	5,200 Vrms

Enclosure Options (Suffix):

M	NEMA 12 Metal
W	NEMA 4 Steel
XS	4X Stainless Steel
X	NEMA 4X Composite
E2	Hub, wires outside of enclosure

Mechanical and Options



Because we are constantly seeking to improve our products, specifications are subject to change at any time.
Specification Last Changed 03/06/2013

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