



Medium Voltage ST-SILA

240 kA / Phase

The Sinetamer Industrial Grade, Medium Voltage Secondary Arrester TVSS models are specifically designed for heavy duty applications including: Chemical & Pharmaceutical Plants, Waste & H₂O 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)



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
- Multistage, Optimal Response Circuitry
- Variety of enclosure types
- Individual Thermally Fused Components
- ISO 9001 Manufactured Quality
- Remote LED option available

Design & Performance

Peak Surge Capacity:	120 kA/Mode (L-L) & (L-G), (240 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



Medium Voltage AC Power Panel Units / Secondary Arrester

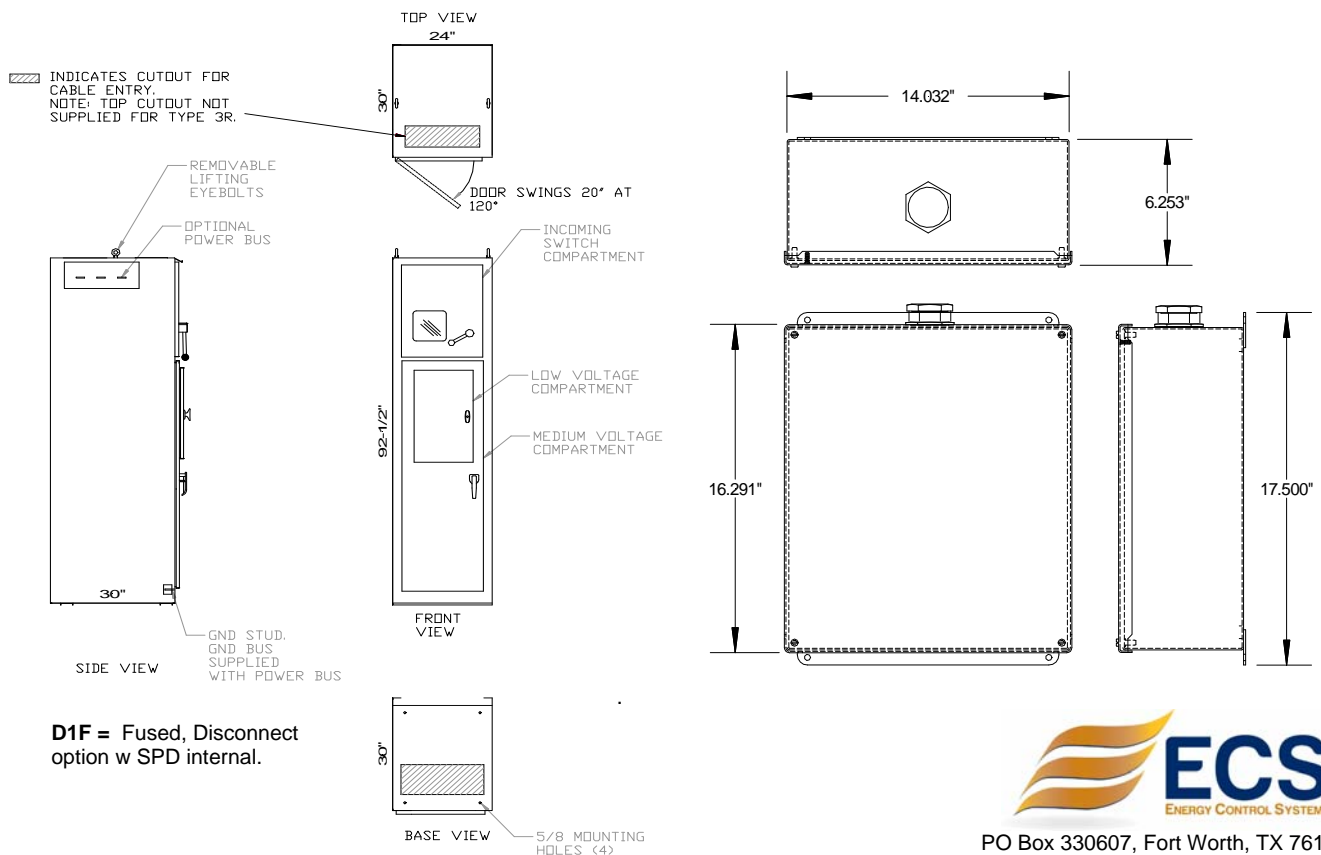
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LET-THROUGH VOLTAGE PERFORMANCE DATA

Model Number	Nominal Operating Voltages	Maximum Continuous Operating Voltage	ANSI/IEEE C62.41 Test Environment C62.11 Let-through Voltage Test Results: (tested w/6" lead length external to the enclosure)	
			Test Mode	C3 20 kV, 10 kA Impulse Wave @ 90° Phase Angle
ST-SILA3N1000	Up to 1,000 Vrms	1,300 Vrms	L-L L-G	4700 5200
ST-SILA3N1500	Up to 1,500 Vrms	1,850 Vrms	L-L L-G	6200 6500
ST-SILA3N2000	Up to 2,000 Vrms	2,550 Vrms	L-L L-G	8700 8600
ST-SILA3N2500	Up to 2,500 Vrms	3,000 Vrms	L-L L-G	9300 10000
ST-SILA3N3000	Up to 3,000 Vrms	3,750 Vrms	L-L L-G	11200 11100
ST-SILA3N3500	Up to 3,500 Vrms	4,550 Vrms	L-L L-G	11700 12300
ST-SILA3N4160	Up to 4,160 Vrms	5,200 Vrms	L-L L-G	14200 14200

Let-through Voltage Test Parameters: Positive Polarity, All voltages are peak ($\pm 10\%$). All tests are static. Let-through voltages on static tests calculated by subtracting sinewave peak from let-through measured from zero. (Scope Settings: Time Base = 10 microseconds, Sampling Rate = 250 Megasamples/sec. These settings assure Let-through voltages test results are accurate).

Surge Current Testing: Single pulse surge current capacities of 200,000 amps or less are determined by testing all suppression components within each mode as a group. Present industry test equipment limitations require testing of individual suppression components or sub-assemblies within a mode for single-pulse surge capacities over 200,000 amps.



Because we are constantly seeking to improve our products, specifications are subject to change at any time.
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