SEL250

Selenium-enhanced™ suppression filter system for high exposure applications

Features and benefits

- *Selenium-enhanced™ for extended product life and maximum performance*
- *Failure-Free ISB™ eliminates PCB trace failures, enhances current sharing*
- *All-copper, tin-plated bus provides minimum impedance, eliminates wire bends*
- *Individually fused MOVs for redundant protection and ongoing performance*
- *Safety interlocked entry door for added safety (with disconnect only)*
- *"All modes protection" safeguards all electrical modes (L-N, L-G, L-L, N-G)*
- *Direct bus connection minimizes installation impedances; provides 200 kAIC fault current protection*
- *10-Year Extended Warranty*

Applications

- *Service entrances near utility substations*
- *Service entrances on grid with other large industrial users*
- *Lower ampacity service entrances*
- *Service entrance remotely located from utility power factor correction and grid switching*

Standard SEL250 Model Numbers

SEL250-120/208-3GY	SEL250-120/240-2G
SEL250-220/380-3GY	SEL250-120/240-3GHD
SEL250-277/480-3GY	SEL250-240-3DG
SEL250-347/600-3GY	SEL250-480-3DG

Maximum Continuous Operating Voltage (MCOV)

Voltage	MCOV	Voltage	MCOV
120V	150V	347V	420V
220V	275V	480V	640V
277V	320V	600V	840V

Typical Clamping Voltage Data

System Voltage	Mode	B3 Ringwave	B3/C1 Comb. Wave	C3 Comb. Wave	UL 1449 Second Edition
120/240 120/208	L-N	300/350	400/425	625/750	400/400
	L-G	375/425	400/475	625/800	500/500
	N-G	325/325	450/450	725/725	500/500
	L-L	375/475	750/825	925/1225	700/700
277/480	L-N	525/575	850/875	1100/1200	800/800
	L-G	825/850	825/875	1050/1200	1000/1000
	N-G	675/675	875/875	1200/1200	900/900
	L-L	625/725	1625/1700	1925/2175	1500/1500

All Current Technology suppression filter systems clamping voltages are in compliance with test and evaluation procedures outlined in NEMA LS 1-1992, paragraphs 2.210 and 3.10. Values following slash (/) indicate typical clamping voltage data for models with integral disconnect option.

Filtering Attenuation Frequencies

100KHz	1MHz	10MHz	100MHz
41dB	31dB	35dB	53dB

Single/Repetitive Surge Current Capacities

Protection mode	Single pulse surge current capacity/mode	Repetitive surge current capacity/mode
Line-to-Neutral	250,000 amps	14,000 impulses
Line-to-Ground	250,000 amps	14,000 impulses
Neutral-to-Ground	250,000 amps	14,000 impulses
Line-to-Line	250,000 amps	14,000 impulses
Per Phase	500,000 amps	N/A

In compliance with NEMA LS 1-1992, SELect suppression filter systems are single pulse surge current tested in all modes at rated currents of the product by an industry-recognized independent test laboratory. Single pulse surge current capacities of 200,000 amps or less are established by single-unit testing of all components within each mode. Due to present industry test equipment limitations, single pulse surge current capacities over 200,000 amps are established via testing of individual components or sub-assemblies within a mode. Per ANSI/IEEE C62.41-1991 and ANSI/IEEE C62.45-1992, SELect suppression filter systems are repetitive surge current capacity tested per mode utilizing a 1.2 x 50µsec 20KV open circuit voltage, 8 x 20µsec 10 kA short circuit current Category C3 bi-wave at one minute intervals without suffering either performance degradation or more than 10% deviation of clamping voltage at a specified surge current.

Options (see page 9 for details)

Primary Monitoring — L1	Integral Disconnect — DM
Advanced Monitoring — L2	DTS-2 Diagnostic Test Set — DTS
MasterMIND™ Diagnostic Monitoring — L3	MasterTEST™ Hand-Held Tester — MT
Stainless Steel Enclosure — SS	

Mechanical Specifications

Dimensions: 38"H x 22" W x 12"D

Weight: 150 lbs.

Enclosure type/mount: NEMA 4/12 surface

Operating environment: -40°C to +60°C
5% - 95% non- condensing humidity

Electrical Specifications

Connection method: Parallel

Protection Modes: L-N, L-G, N-G, L-L

UL Listings: 1449-Second Edition
1283

UL-Recognized fusing

Current Technology
THE #1 NAME IN SURGE SUPPRESSION™

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 DS2-SEL100 REV.3 6.03 CT-2311

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