

# SEL100

## SELENIUM-ENHANCED™ SUPPRESSION FILTER SYSTEM FOR HIGHEST 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

- Branch panels
- Branch panels deep within a facility

#### Standard SEL100 Model Numbers

SEL100-120/208-3GY	SEL100-120/240-2G
SEL100-220/380-3GY	SEL100-120/240-3GHD
SEL100-277/480-3GY	SEL100-240-3DG
SEL100-347/600-3GY	SEL100-480-3DG

#### 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/Cl Comb. Wave	C3 Comb. Wave	UL 1449 Second Edition
120/240 120/208	L-N	300/325	400/425	600/700	400/400
	L-G	375/425	400/450	600/725	500/500
	N-G	350/350	450/450	725/725	500/500
	L-L	350/450	750/825	950/1175	700/700
277/480	L-N	500/525	850/900	1125/1175	900/900
	L-G	825/850	825/850	1050/1150	1000/1000
	N-G	675/700	875/875	1175/1175	800/800
	L-L	650/700	1650/1700	1925/2150	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.

**Current Technology**  
THE #1 NAME IN SURGE SUPPRESSION™



#### Filtering Attenuation Frequencies

100KHz	1MHz	10MHz	100MHz
44dB	33dB	36dB	53dB

#### Single/Repetitive Surge Current Capacities

Protection mode	Single pulse surge current capacity/mode	Repetitive surge current capacity/mode
Line-to-Neutral	100,000 amps	11,000 impulses
Line-to-Ground	100,000 amps	11,000 impulses
Neutral-to-Ground	100,000 amps	11,000 impulses
Line-to-Line	100,000 amps	11,000 impulses
Per Phase	200,000 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. 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: 27"H x 22" W x 12"D  
Weight: 100 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

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