

# SEL200

## SELENIUM-ENHANCED™ SUPPRESSION FILTER SYSTEM FOR MEDIUM 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 entrance distribution switchboards
- Heavy equipment (UPS, elevators, etc.) located near unprotected service entrance
- Panels feeding variable speed drives
- Service entrance motor-control centers utilizing drives, PLCs, soft-start starters, electronic starters, electronic control systems and electronic monitoring

#### Standard SEL200 Model Numbers

SEL200-120/208-3GY	SEL200-120/240-2G
SEL200-220/380-3GY	SEL200-120/240-3GHD
SEL200-277/480-3GY	SEL200-240-3DG
SEL200-347/600-3GY	SEL200-480-3DG

#### Maximum Continuous Operating Voltage (MCOV)

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

#### Options

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	



#### Single/Repetitive Surge Current Capacities

Protection mode	Single pulse surge current capacity/mode	Repetitive surge current capacity/mode
Line-to-Neutral	200,000 amps	13,000 impulses
Line-to-Ground	200,000 amps	13,000 impulses
Neutral-to-Ground	200,000 amps	13,000 impulses
Line-to-Line	200,000 amps	13,000 impulses
Per Phase	400,000 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.

#### 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

#### 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