



Select<sup>®</sup>SL3<sup>™</sup> suppression filter systems feature selenium-enhanced surge protection along with a powerful failure-free ISM<sup>™</sup> (Integrated Suppression Module). The ISM<sup>™</sup> contains individual thermally fused and protected MOVs, surge-rated copper busing, robust filtering and advanced remote communications capabilities. Additionally, the SL3's selenium-enhanced seamless technology design ensures maximum performance and a dramatically extended product life.

## PRODUCT SPECIFICATIONS

### General Specifications

Maximum Surge Current Rating	250kA Per Mode, 500kA Per Phase
Nominal Discharge Surge Current	I-n = 20kA
Safety Listings	UL Listed 1449 4th Edition for Type 1 and Type 2 SPD applications, cUL, and UL 1283 / Meets Requirements for UL 96A / Compliant to IEEE C62.41.1-2002, C62.41.2-2002 and C62.45-2002 / NFPA 70 [NEC], Article 285
Protection Method	Thermally protected MOVs, Selenium, Capacitive Filter
Product Design	Individual thermally fused and protected MOVs, Selenium Cells, and All Copper, Tin-plated Bus
Dimensions	32"H x 22"W x 11.95"D
Weight	87 lbs.
Enclosure Type	NEMA 4/12 Standard (NEMA 4X Option)
Installation Location	Outdoor or Indoor
Operating Environment	-25°C to +60°C 5% – 95% Non-Condensing Humidity
Fault Current (SCCR)	200kAIC
Connection Method	Parallel
Protection Modes	All Modes (L-N, L-G, N-G, L-L)
Response Time	< 0.5 Nanoseconds
Operating Frequency	47 – 63 Hz
Warranty	20 Years

### Filtering Attenuation Frequencies (Per Mil-Std-220B January 2000)\*\*

10 KHz	100 KHz	1 MHz	10 MHz	Max at 142 KHz
18.1 dB	44 dB	22.8 dB	15.3 dB	54.6 dB

### Single/Repetitive Surge Current Capacities (Tested)\*\*

Protection Mode	Single Pulse Surge Current Capacity/Mode	Repetitive Surge Current Capacity/Mode
Line-to-Neutral	250,000A	16,000 Impulses
Line-to-Ground	250,000A	16,000 Impulses
Neutral-to-Ground	250,000A	16,000 Impulses
Line-to-Line	500,000A	32,000 Impulses
Per Phase	500,000A	32,000 Impulses

### Maximum Continuous Operating Voltage (MCOV)

Voltage	L-N MCOV	Voltage	L-L MCOV
120V	150V	240V	300V
277V	320V	480V	552V
347V	420V	600V	690V

\*\* Data based on actual tests. Contact factory for test reports

## MODEL NUMBER SCHEME (SL3<sup>™</sup>)

E.g.: SL3-250-208-3Y-MDT-M6E-F2 (as shown in above photo)

SL3	—	250	—	208	—	3Y	—	MDT	—	M6E	—	F 2
Model		kA Rating		Voltage		Configuration		Enclosure Cable Entry		Monitoring		Filter Option Optional Feature

### kA Rating (Must Choose One)

Available SL3<sup>™</sup> kA Ratings:  
050, 080, 100, 125, 150, 200, 250, 300

### Voltage\* (Must Choose One)

208	120/208
240	120/240
380	220/380
480	277/480
600	347/600

### Configuration\* (Must Choose One)

1G	1-Phase, Grounded
2G	2-Phase, Grounded, Split-Phase
3Y	3-Phase, Grounded, Wye
3H	3-Phase, Grounded, High-Leg Delta
3D	3-Phase, Grounded, Delta

### Enclosure (Must Choose One)

MN	Metal Without Disconnect
MD	Metal With Disconnect
SN	Stainless Steel Without Disconnect
SD	Stainless Steel With Disconnect

### Cable Entry (Must Choose One)

T	Top Feed
B	Bottom Feed

### Monitoring (Must Choose One)

M0	No local monitoring (see remote MxX stand-alone option)
M1	Smart switching tri-color/LED/Phase, Audible Alarm & Dry Relay Contacts
M2	M1 + Surge Counter
M3	Advanced Monitoring, Character Display, Modbus RTU
M4E	M3 + Ethernet, Modbus TCP
M5	Advanced Monitoring, Graphics Display, Modbus RTU
M6E	M5 + Ethernet, Modbus TCP

### Filter (Must Choose One)

F	Filter
N	No Filter

### Optional Features (May Choose One)

2	Test Port
4	Enhanced Selenium

### Stand-Alone Options

(To Be Ordered As Separate Items)

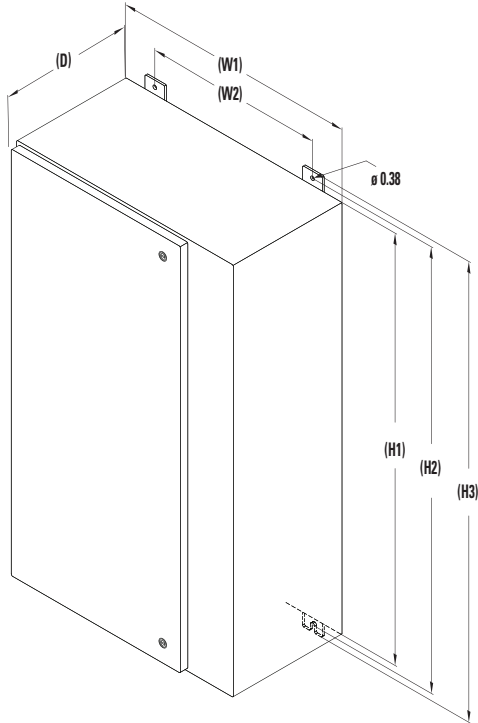
DTS	DTS-2 Diagnostic Test Set
MxX	Remote Monitor Extension M1X through M6EX
HPI	HPI Cable



\*See table on back for more Voltage/Configuration Options.

## DIMENSIONAL SPECIFICATIONS

SL3™/250	Inches	(mm)
H1	32.00	(812.8)
H2	33.25	(844.6)
H3	34.50	(876.3)
W1	22.00	(558.8)
W2	16.00	(406.4)
D	11.95	(303.5)



## VOLTAGE/CONFIGURATION OPTIONS

Not all voltage configurations are displayed, contact your local sales representative for additional configurations.

Voltage	Configuration				
	1G	2G	3Y	3H	3D
120	X				
208	X		X		X
220	X	X			X
230	X				X
240	X	X		X	X
380		X	X		X
415		X	X		X
480		X	X		X
600		X	X		X

## SL3™/250 PERFORMANCE DATA

System Voltage	120/240V or 120/208V				277/480V				347/600V				240V Delta		480V Delta		600V Delta	
	L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L	L-G	L-L	L-G	L-L	L-G	L-L
<b>MCOV</b>	150	150	150	300	320	320	320	552	420	420	420	690	320	300	552	552	690	690
<b>B3 Ring Wave 6kV, 500A</b>	580	700	740	590	560	620	730	660	570	650	730	680	620	590	1530	660	-	-
<b>B3/C1 Combo Wave 6kV, 3kA</b>	596	675	682	964	1020	1066	969	1824	1197	1260	1186	2354	1066	964	1604	1824	1260	2354
<b>C3 Combo Wave 20kV, 10kA</b>	1640	1460	1520	1960	1890	1890	2020	3020	2080	2200	2140	3390	1890	1960	2460	3020	-	-
<b>UL 1449 4th Edition VPR 6kV, 3kA</b>	700	700	700	1000	1200	1200	1000	2000	1200	1500	1200	2500	1200	1500	1800	2000	3000	2500

All SL3™ systems voltage protection ratings (VPR) are peak values ( $\pm 10\%$ ) measured from the 90° reference point and are in compliance with test and evaluation procedures outlined in ANSI/IEEE C62.41



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[new.abb.com/low-voltage/products/surge](http://new.abb.com/low-voltage/products/surge)

Specifications are subject to change without notice

BRO-SL3250-MK-2008 C01 081418