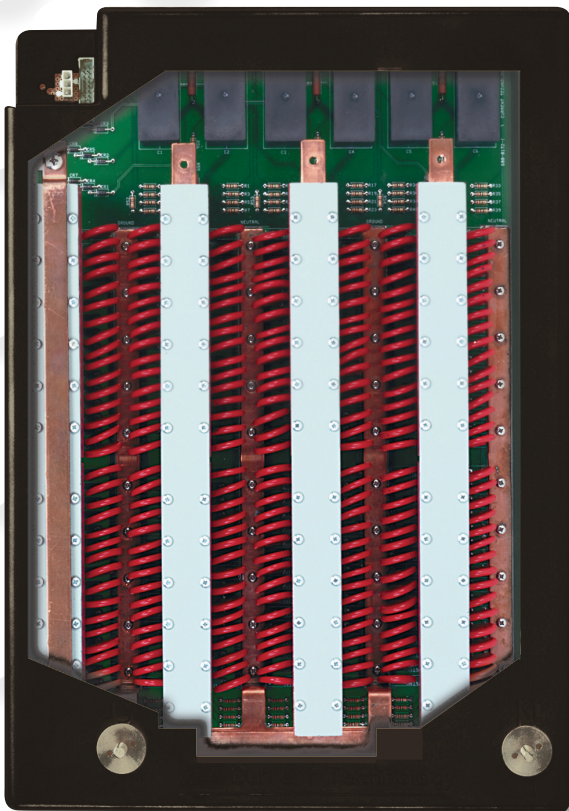


# ISB<sup>®</sup>

## INTEGRATED SUPPRESSION BUS



### SYSTEM FEATURES

The ISB<sup>®</sup> (Integrated Suppression Bus) features a suppression filter assembly, with individual fused MOVs, for improved current sharing. Precisely the protection today's facilities need from costly downtime and equipment damage resulting from routine or catastrophic electrical disturbances.

### PRODUCT SPECIFICATIONS

#### General Specifications

Safety Listings	UL 1449 3rd Edition Type 4 - Component SPD intended to be used in Type 1 or Type 2 SPD Applications
Protection Method	MOV
Product Design	Individually fused MOVs; All copper, tin-plated bus
Installation Location	Indoor
Operating Environment	-40°C to +60°C 5% - 95% non-condensing humidity
Fault Current (SCCR)	200 kAIC
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	10 years

E.g. MODEL # ISB 80 - 120 / 208 - 3GY - L1E

#### SURGE RATING

60kA per mode

80kA per mode

100kA per mode

125kA per mode

150kA per mode

200kA per mode

250kA per mode

300kA per mode

#### VOLTAGE

120/208 - 3GY

220/380 - 3GY

277/480 - 3GY

347/600 - 3GY

120/240 - 2G

120/240 - 3GHD

240 - 3DG

480 - 3DG

600 - 3DG

#### OPTIONS

##### Monitoring

Primary Monitoring: Standard Monitoring *Plus* Form "C" Contacts / Remote L1E

Advanced Monitoring: Primary Monitoring *Plus* Event Counter Display,  
Audible Alarm w/LED / Remote L2E

MasterMIND<sup>®</sup> Diagnostic Monitoring: Advanced Monitoring *Plus* Enhanced Status  
Indicator Lights, Integral Multifunction Power Monitor / Analyzer / Remote L3E

##### Stand-alone Options

DTS-2 Diagnostic Test Set DTS

MasterTEST Hand-Held Tester MT

(Continued on Back)

For more information go to [www.currenttechnology.com](http://www.currenttechnology.com)

 **Current Technology**

# ISB<sup>®</sup> – INTEGRATED SUPPRESSION BUS

## SINGLE/REPETITIVE SURGE CURRENT CAPACITIES

	Single pulse surge current capacity / mode	Repetitive surge current capacity / mode
Protection/Mode L-N, L-G, N-G	60,000 amps	3,500 impulses
	80,000 amps	4,000 impulses
	100,000 amps	4,500 impulses
	125,000 amps	5,000 impulses
	150,000 amps	5,500 impulses
	200,000 amps	6,500 impulses
	250,000 amps	7,000 impulses
	300,000 amps	7,500 impulses
Weight	60–80	18 lbs
	100, 125, 150	29 lbs
	200, 250, 300	43 lbs

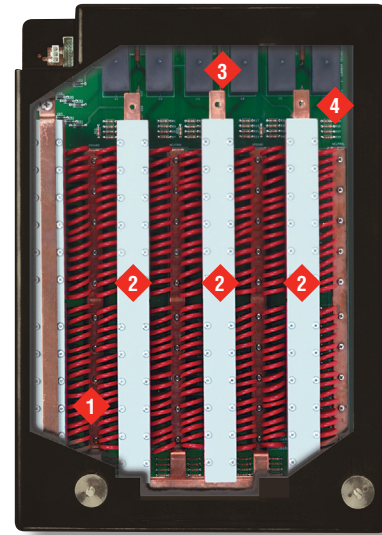
## MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV)

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 2005 Revision
	L-N	300	400	550	400
120/240	L-G	400	400	600	500
120/208	N-G	325	475	800	500
	L-L	425	725	900	700
	L-N	500	875	1050	900
277/480	L-G	825	825	1025	1000
	N-G	650	875	1200	800
	L-L	700	1625	1825	1800

Values following slash (/) indicate typical clamping voltage data for models with integral disconnect options. All TransGuard<sup>®</sup> systems clamping voltages are in compliance with test and evaluation procedures outlined in NEMA LS 1-1992 (R2000), paragraphs 2.210 and 3.10.



ISB<sup>®</sup> – Integrated Suppression Bus  
MOV component of Select<sup>®</sup> and TransGuard<sup>®</sup> products.

- 1. Individually Fused MOVs** – ensure seamless product performance in event of single MOV failure
- 2. Internal fusing** for uninterrupted protection at higher surge current levels
  - Fuse array rated at 200 kAIC (patent-pending) provides industry breakthrough technology
  - All paths and elements protected via fusing
  - Expanded safety and reliability via a fuse block array that prevents “cross-arcing” which may occur in designs without independently isolated fuses
- 3. Heavy-duty filter capacitors** ensure industry's best high frequency noise and transient filtering
- 4. Solid copper bus construction** – cumulative surge current is carried on copper bus bars, thereby eliminating reliance on PCB trace to conduct full magnitude current

For more information go to [www.currenttechnology.com](http://www.currenttechnology.com)

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**Current Technology**

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