

Fiberglass reinforced polyester enclosure



Metal enclosure

ADVANCED ELECTRICAL TRANSIENT PROTECTION FOR HIGHEST EXPOSURE APPLICATIONS

Features and benefits

- Failure-Free ISB eliminates PCB trace failures, provides precise current sharing
- All-copper, tin-plated bus provides minimum impedance, eliminates wire bends •
- All MOVs are fused to ensure ongoing performance
- Safety interlocked entry door for added safety (only with disconnect)
- "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
- Seven Year Product Warranty (MasterPLAN selenium-enhanced 10-Year Warranty available when simultaneously installed with Current Technology® SELect® SEL300 or SEL250 units)

Applications

- Large ampacity electrical service entrances
- Service entrances in high lightning areas

Single/Repetitive Surge Current Capacities

Protection mode	Single pulse surge current capacity/mode	Repetitive surge current capacity/mode	
Line-to-Neutral	300,000 amps	7,500 impulses	
Line-to-Ground	300,000 amps	7,500 impulses	
Neutral-to-Ground	300,000 amps	7,500 impulses	
Line-to-Line	300,000 amps	7,500 impulses	
Per Phase	600,000 amps	N/A	

In compliance with NEMA LS 1-1992, TransGuard 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 singleunit 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 subassemblies within a mode. Per ANSI/IEEE C62.41-1991 and ANSI/IEEE C62.45-1992, TransGuard 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 5 for details)

Primary Monitoring — L1	Integral Disconnect —DM (requires metal enclosure)
Advanced Monitoring — L2	DTS-2 Diagnostic Test Set — DTS
MasterMIND Diagnostic Monitoring — L3	MasterTEST Hand-Held Tester — MT
NEMA 4/12 Metal Enclosure — M	Stainless Steel Enclosure —SS

Mechanical Specifications

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Dimensions:
Fiberglass reinforced polyester:
19.5"H x 17.5"W x 9.5"D

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Metal: 28"H	Х	16"W	х9.	5"D	
17.3 11 × 17.3		/ A 7.J	υ		

Fiberglass reinforced polyester: 57 lbs. Metal: 91 lbs.

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 1449-Second Edition UL Listings: 1283 **UL** Recognized Fuses

Enclosure type/mount: NEMA 4/12 surface Contact factory for open-frame product specifications.

	Standard	TG300	Model	Numbers
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TG300-120/208-3GY	TG300-120/240-2G
TG300-220/380-3GY	TG300-120/240-3GHD
TG300-277/480-3GY	TG300-240-3DG
TG300-347/600-3GY	TG300-480-3DG

Maximum Continuous Operating Voltage (MCOV)

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

Typical Clamping Voltage Data

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System Voltage	Mode	B3 Ringwave	B3/C1 Comb. Wave	C3 Comb. Wave	UL 1449 Second Edition
	L-N	325 / 375	425/450	650 / 775	400/400
120/240	L-G	400 / 450	425/450	650 / 825	500/500
120/208	N-G	350 / 350	475 / 475	750 / 750	500/500
	L-L	400 / 500	775 / 850	950 / 1250	700/700
	L-N	550 / 600	875 / 900	1125 / 1225	800/800
277/480	L-G	850 / 875	850 / 900	1075 / 1225	1000/1000
2/// 100	N-G	700 / 700	900 / 900	1225 / 1225	800/900
	L-L	650 / 750	1650 / 1725	1950 / 2200	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

50KHz	100KHz	500KHz	1MHz	5MHz	10MHz	50MHz	100MHz	
53dB	41dB	32dB	31dB	32dB	35dB	47dB	53dB	