

Fiberglass reinforced polyester enclosure



ADVANCED ELECTRICAL TRANSIENT PROTECTION FOR HIGH-TO-MEDIUM 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

- Distribution panels feeding rooftop loads in high lightning areas
- Extremely large distribution panels

Single/Repetitive Surge Current Capacities

	Protection mode	Single pulse surge current capacity/mode	Repetitive surge current capacity/mode	
Line-to-Neutral		200,000 amps	6,500 impulses	
	Line-to-Ground	200,000 amps	6,500 impulses	
	Neutral-to-Ground	200,000 amps	6,500 impulses	
	Line-to-Line	200,000 amps	6,500 impulses	
	Per Phase	400,000 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 single-unit testing of all components within each 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 50/ μ sec 20KV open circuit voltage, 8 x 20/ μ sec 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.

Standard TG200 Model Numbers

TG200-120/208-3GY	TG200-120/240-2G
TG200-220/380-3GY	TG200-120/240-3GHD
TG200-277/480-3GY	TG200-240-3DG
TG200-347/600-3GY	TG200-480-3DG

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/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
	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

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

Dimensions:

Fiberglass reinforced polyester: 19.5"H x 17.5"W x 9.5"D Metal: 28"H x 16"W x 9.5"D

Weight:

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

Enclosure type/mount: NEMA 4/12 surface **product specifications.**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

Contact factory for open-frame product specifications.