

ADVANCED ELECTRICAL TRANSIENT PROTECTION FOR LOWEST EXPOSURE APPLICATIONS



Fiberglass reinforced polyester enclosure



Metal enclosure

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

- Branch panels with upstream protection
- Branch panels with primarily sensitive electronic loading

Standard TG60 Model Numbers

TG60-120/208-3GY	TG60-120/240-2G
TG60-220/380-3GY	TG60-120/240-3GHD
TG60-277/480-3GY	TG60-240-3DG
TG60-347/600-3GY	TG60-480-3DG

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
120/240	L-N	300 / 325	400 / 425	550 / 700	400/400
	L-G	400 / 425	400 / 450	600 / 750	500/500
	N-G	325 / 350	475 / 475	800 / 800	500/500
120/208	L-L	425 / 475	725 / 800	900 / 1125	700/700
	L-N	500 / 525	875 / 900	1050 / 1175	900/900
	L-G	825 / 875	825 / 875	1025 / 1150	1000/1000
277/480	N-G	650 / 650	875 / 900	1200 / 1225	800/900
	L-L	700 / 775	1625 / 1675	1825 / 2025	1800/1800

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
47dB	50dB	37dB	37dB	37dB	38dB	47dB	53dB

Single/Repetitive Surge Current Capacities

Protection mode	Single pulse surge current capacity/mode	Repetitive surge current capacity/mode
Line-to-Neutral	60,000 amps	3,500 impulses
Line-to-Ground	60,000 amps	3,000 impulses
Neutral-to-Ground	60,000 amps	3,000 impulses
Line-to-Line	60,000 amps	3,000 impulses
Per Phase	120,000 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 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

Dimensions:

Fiberglass reinforced polyester:
15.5"H x 13.5"W x 7"D
Metal: 16"H x 16"W x 9.5"D

Weight:

Fiberglass reinforced polyester: 28 lbs.
Metal: 45 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

Contact factory for open-frame product specifications.