MASTERPLAN®

TRANSGUARD®

ELECTRICAL TRANSIENT SUPPRESSION FILTER SYSTEMS

Current Technology®

THE #1 NAME IN SURGE SUPPRESSION™

CURRENT TECHNOLOGY®

TRANSGUARD®

Advanced, all-new MasterPLAN®-compatible electrical transient suppression solutions

Dramatically different from other transient disturbance products, Current Technology's hardworking TransGuard® suppression filter systems feature a powerful new Failure-Free ISB® (Integrated Suppression Bus) suppression filter assembly, individually fused MOVs, improved current sharing, multiple options and much more — precisely the protection today's facilities need from costly downtime and equipment damage resulting from routine or catastrophic electrical disturbances.

Current Technology: the #1 name in surge suppression

Since 1971, engineers and end-users have called on Current Technology to safeguard their facilities from costly electrical transients. High-rise office buildings, schools, wastewater treatment plants, manufacturing operations, utilities, gas stations, public arenas, retail outlets, hospitals... confident customers from all commercial and industrial business segments choose Current Technology suppression filter systems based on quality, performance and dependability.

We continue to lead and change the electrical world with "firsts" such as our MasterPLAN® concept of facility-wide protection, the often-imitated but never equaled Electronic Grade Panelboard®, Control**Guard**®, **Guard**Bus® and our exclusive around-the-clock "24x7" Technical Support. Our products are the first and only electrical transient protection offerings capable of passing the full rated surge current capacity of units with an integral disconnect and without fuse operation. That's why independently surveyed engineers and end-users rate Current Technology #1 when it comes to product quality and service.

TransGuard and MasterPLAN®: the #1 facilitywide protection network

Cost-effective TransGuard models are easily configured into a MasterPLAN® network of facility-wide protection. Current Technology's heralded MasterPLAN approach combines two or more suppression filter systems to yield dramatically increased performance and long-lasting protection for critical loads. MasterPLAN benefits include improved voltage clamping, expanded distribution system reliability, increased product life expectancy, and reduced surge current stress resulting from upstream higher exposure protection.

High-Frequency Noise Attenuation

Single device*				MasterPLAN network of two or more devices separated by at least 100 feet of wire			
100 K	1M	10M	100M	100K	1M	10M	100M
44dB	33dB	36dB	53dB	83dB	68dB	67dB	84dB

**TG150 noise attenuation ratings. See individual TransGuard data sheets for model-specific noise attenuation ratings.*

"They say lightning never strikes twice, but I'm not so sure about that. We've had numerous storms since the 'big one' that hit the flagpole, but everything protected by Current Technology has stayed up and running. No facility should be without one."

— Marv Fischer, Building Official
Grand County, Colorado

Current Technology: #1 in service and support

Current Technology's commitment to superior technical support and customer service extends well beyond the delivery of your TransGuard® suppression filter systems. All Current Technology products are backed by a well-trained team of applications engineers and customer service professionals. Your technical questions are answered around the clock, 365 days per year, by our in-house support staff. We ensure maximum product performance and reliability through two exclusive test methods: the DTS-2 Diagnostic Test Set and hand-held MasterTEST® Monitor (see page 5).

Maximum performance and proven reliability: our #1 priority

Precise manufacturing standards, industry guideline compliance and extensive testing ensure TransGuard integrity.

All Current Technology products are US-built to meet and exceed established world-class manufacturing and quality benchmarks as well as industry regulatory guidelines, and each unit undergoes extensive testing and inspection prior to shipment. Every TransGuard unit is manufactured in compliance with the following standards:

NEMA Standard LS 1-1992

National Electrical Manufacturers' Association specification guideline for low voltage surge protective devices. Per NEMA LS 1, Current Technology supports and publishes conservative design-rated single pulse surge current capacity ratings that do not exceed the published ratings of individual component manufacturers. Additional tested maximum single pulse surge current reports obtained through independent laboratory testing are also available.

Underwriters Laboratories — UL 1449, Second Edition and UL 1283

Benchmark standards for surge suppression safety and performance. Current Technology engineers have participated in the UL 1449 industry advisory group since its inception.

CSA C22.2 M-1996

Canadian Standards Association's guidelines for compliance with general Canadian Electrical Code requirements for bonding and grounding/protective grounding of electrical equipment and surge/transient voltage suppressors.

ANSI/IEEE C62.41 — 1991 and C62.45 — 1995

American National Standards Institute/Institute of Electrical and Electronic Engineers standards for establishment of surge withstand capabilities. TransGuard suppression filter systems are extensively tested in all modes utilizing a 1.2x50 µsec 20KV open circuit voltage, 8x20 µsec short circuit current Category C3 bi-wave (see product specifications, pages 8-14).

On-Site Testing

Current Technology is the industry's first manufacturer to install and utilize a KeyTek® E-Class™ Series PQF Power Simulator for on-site product testing. The world's most powerful transient testing and monitoring system and the accepted standard for sustained product life evaluation, the KeyTek ECAT permits on-site testing with amperages of up to 10,000 amps and voltages as high as 20,000 volts. TransGuard suppression filter systems are subjected to strenuous testing and inspection by diligent quality assurance professionals before leaving the factory, and every unit is shipped with a Diagnostic Signature Card listing factory-established benchmark performance values.*

**Diagnostic Signature Card intended for use with DTS-2 Diagnostic Test Set. (See page 5.)*

"Prior to the installation of Current Technology suppression filter systems, Frito Lay was spending thousands of dollars each year to repair or replace electronic parts and discarding thousands of pounds of ingredients. Today, the Pulaski (Tennessee) operation no longer experiences downtime or damage resulting from power disturbances. We made a good investment and definitely received our money's worth with MasterPLAN."

— Jerry Knief, Senior Resource, Maintenance Group
Frito Lay, Inc., Pulaski, Tennessee

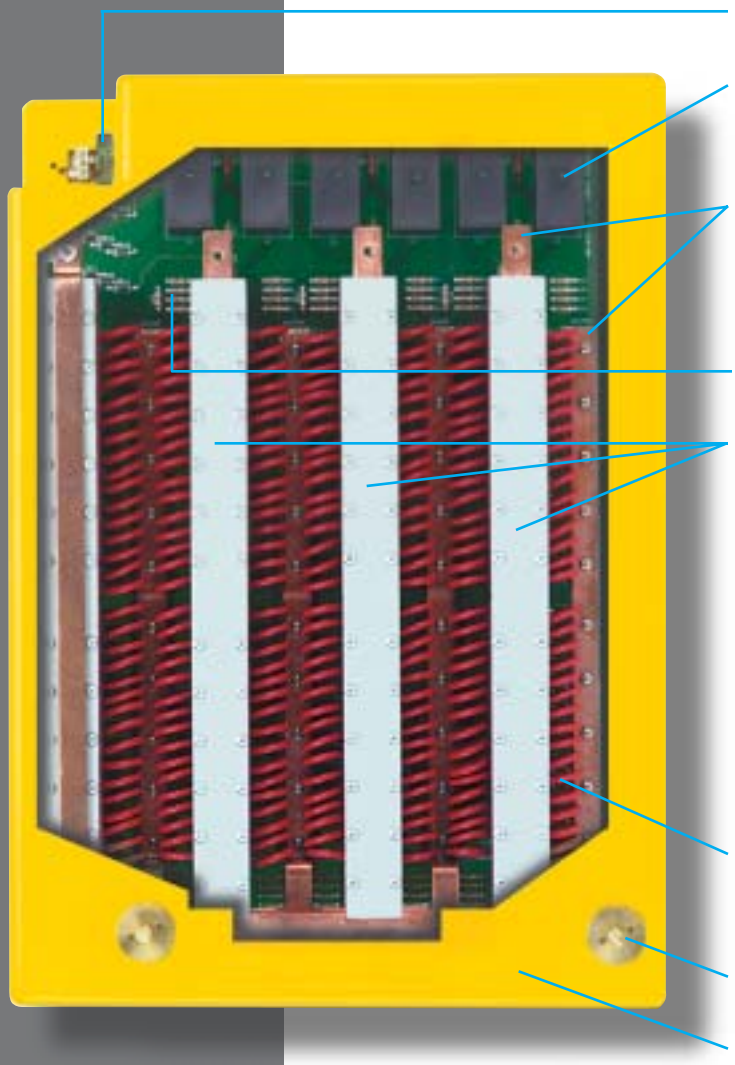
Failure-Free Integrated Suppression Bus

Failure-Free ISB® Integrated Suppression Bus

The most advanced, most reliable suppression filter assembly.

The unparalleled result of an extensive design effort in Current Technology's research and development facility, Current Technology's dramatically different, improved suppression filter assembly enables TransGuard models to provide unmatched performance and reliability. Unlike printed circuit board-based technologies, Current Technology's patent-pending Failure-Free ISB® is not dependent on PCB traces to carry full magnitude current. Instead, surge current travels on copper bus bars to multiple MOV (metal oxide varistor) paths. PCB trace failures are eliminated while current sharing is enhanced by minimized impedance.

Failure-Free ISB Features



- Monitor output connectors — real-time monitoring of all modes
- Heavy-duty filter capacitors ensure industry's best high frequency noise and transient filtering
- Solid copper bus construction — cumulative surge current is carried on copper bus bars, thereby eliminating reliance on PCB trace to conduct full magnitude current
- Fuse sensing circuitry
- Internal fusing for uninterrupted protection at higher surge current levels
  - UL Recognized 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
- Fused MOVs — ensure seamless product performance in event of single MOV failure
- Power terminals
- Sand-filled molded polycarbon suppression filter assembly enclosure

More features, more benefits, more options than competing models

Standard TransGuard features and benefits

Seamless technology™ engineering	Unique suppression and filtering properties of key components — MOVs, polypropylene capacitors and precise component geometry — are combined and maximized to deliver extended performance and reliability
Failure-Free ISB®	Advanced suppression filter assembly eliminates PCB trace failures, enhances current sharing by minimizing impedance, conducts cumulative current via all-copper bus, then distributes to multiple MOV paths; fused MOVs
MasterPLAN® compatible	May be combined with other Current Technology products to yield improved suppression voltage clamping and high frequency noise attenuation (see page 2)
Direct bus connection	Permits connection directly to the serving electrical bus to minimize installation impedance and provides 200 kAIC fault current protection
NEMA 4X fiberglass reinforced polyester or NEMA 4/12 metallic enclosure	Allows installation in virtually any commercial or industrial environment
Phase indicator lights (3)	Indicates power present
Safety interlocked entry door	Prevents human exposure to energized unit (available only with disconnect)
All-modes protection	Ensures 100% protection by safeguarding all electrical modes (L-N, L-G, L-L, N-G)
"24x7" Technical Hotline	Toll-free technical support 24 hours a day, seven days a week, 365 days a year
7-Year Product Warranty*	Warranted to be defect-free and performance-guaranteed for up to 84 months — even against lightning strikes • *TransGuard models may be warranted for 10 years when installed electrically downstream from a selenium-enhanced™ SELect® SEL300 or SEL250 suppression filter system. See page 7 for details.*

TransGuard products are available in non-metallic polycarbon, metallic NEMA 4 or metallic NEMA 4X enclosures. Shown: metallic NEMA 4 enclosures with various options.

TransGuard options

Integral disconnect		Safely removes unit power to facilitate testing, maintenance and inspection. Disconnect option includes metal enclosure. Safety interlocked to prevent accidental exposure to energized components
Primary monitoring		Phase indicator lights, form "C" dry contacts for remote monitoring
Advanced monitoring		Phase indicator lights, LED indicator, form "C" dry contacts, test switch pad, LED status indicator, audible alarm/alarm disable switch, alarm disable indicator, low battery indicator, disturbance counter
MasterMIND® Diagnostic Monitoring		Phase indicator lights, LED indicator, form "C" dry contacts, audio alarm/disable switch, reset and test switches, phase and filter LED status indicators, alarm disable indicator, real-time notification of % protection status, % protection warning, N-G voltage, N-G current, capacitor fuse status, RMS voltage, sags, swells, dropouts, outages, disturbance counters, battery back-up of stored data
Metal NEMA 4/12 enclosure		Required for integral disconnect
DTS-2 Diagnostic Test Set		Ten-mode dual-function analyzer for on-site quantitative performance measurement of all electrical modes. Easily connects to all TransGuard models to provide real-time testing and monitoring. The industry's only proactive test set.
MasterTEST® Hand-Held Tester		Provides easy monitoring of Failure- Free ISB components: percentage of protection; phase, selenium and filter status; N-G voltages and currents. Battery operated

The intelligent MasterMIND optional monitoring system permits real-time monitoring of every MOV and displays protection capacity, number of voltage swells, sags, surges, dropouts and outages.

TransGuard: Simple to select; easy to install

"A massive storm pounded the Dallas/Ft. Worth area. The only piece of station equipment that was damaged was a coaxial relay switch, which at the time was not protected by Current Technology suppression filter systems. Engineers purchase the best equipment money can buy. I believe in Current Technology's products or I wouldn't have bought a second one."

— *Tom Daniels, Director of Engineering and Operations*
KTVT Channel 11 (CBS affiliate)

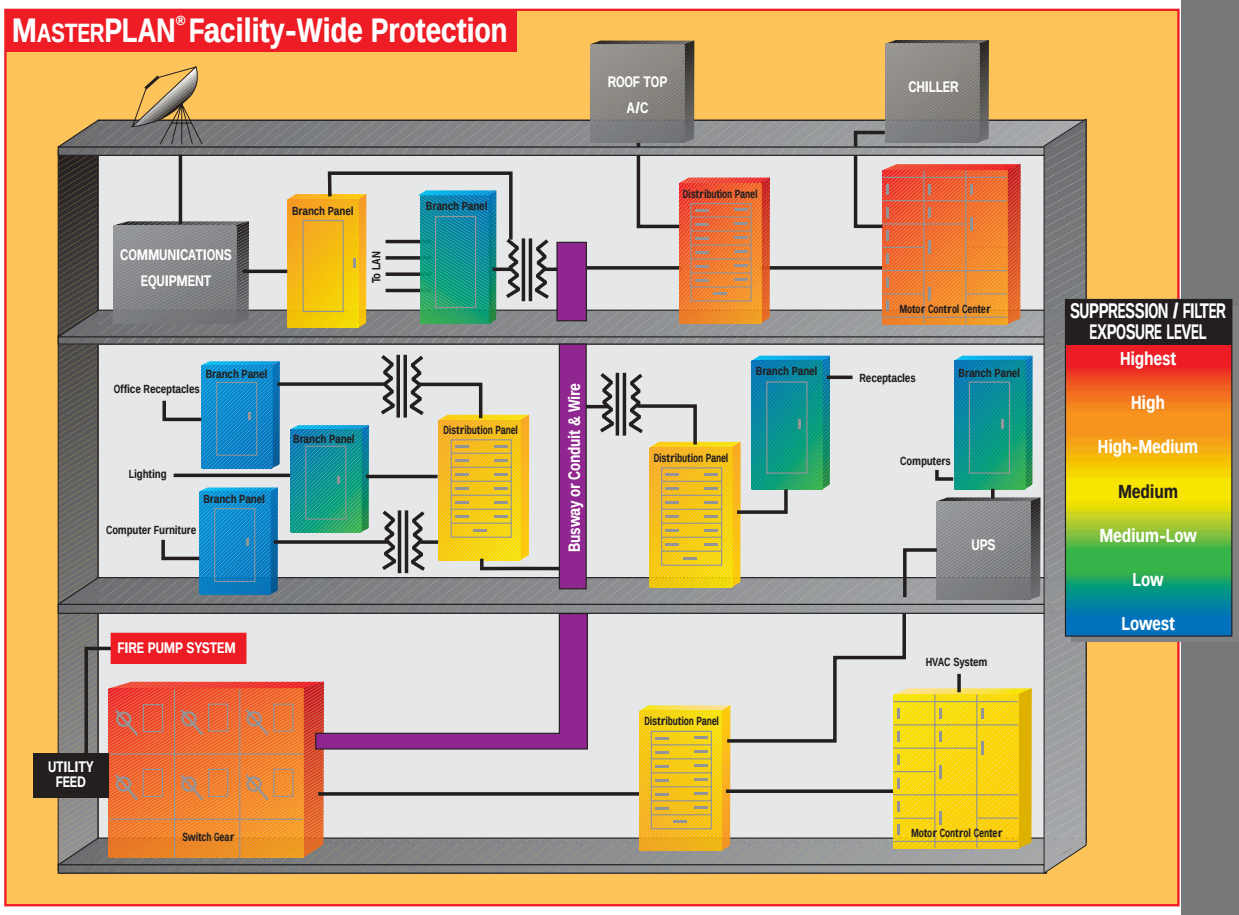
All Current Technology suppression filter systems are manufactured and classified in accordance with the transient surge environments and surge severity guidelines specified in ANSI/IEEE standard C62.41 — 1991. The chart below defines ANSI/IEEE specified transient exposure levels, describes typical applications and suggests the appropriate TransGuard product for each. The chart also lists Current Technology selenium-enhanced™ SELect® suppression filter systems which, when installed at service entrance with TransGuard units directly downstream, constitute a MasterPLAN selenium-enhanced network and empower downstream TransGuard units with a 10-Year Extended Warranty. The facility diagram represents the variety of exposure levels found within a typical building.

With a basic understanding of your facility's applications, electrical distribution system set-up and ANSI/IEEE exposure levels, suppression filter systems requirements are easily determined. Your Current Technology factory-trained representative will assist you with the evaluation of your needs and gladly conduct a no-cost site inspection to assess the most comprehensive and cost-effective protection for your particular facility.

"Our boring mills were being wiped out and costing us several thousand dollars with every occurrence — and that was just the damages alone. As soon as the (Current Technology unit) was installed, our power quality problems stopped and the (unit's) disturbance counters started going crazy. It didn't take long for over a million events to be recorded."

— *Chauncey Barber, Fossil Division Project Engineer*
Siemens

IEEE Category	Exposure Level	Recommended models	Typical Applications
"C"	Highest	TG300 SEL300	• Zero-tolerance environments • Largest ampacity service entrances • Service entrances in high lightning areas
	High	TG250 SEL250	• Moderate and lower ampacity service entrances • Service entrances near utility substations • Service entrances on grid with other large industrial users • Service entrances remotely located from utility power factor correction and grid switching
	High-to-Medium	TG200	• Distribution panels feeding rooftop loads in high lightning areas • Extremely large distribution panels
"B"	Medium	TG150 TG125	• Large distribution panels • Heavy equipment (UPS, elevators, etc.) located near unprotected service entrance • Panels feeding variable speed drives • Non-service entrance motor control centers utilizing drives, PLCs, soft-start starters, electronic starters, electronic control systems and electronic monitoring
	Medium-to-Low	TG100	• Branch panels heavily loaded with sensitive electronic equipment • Branch panels with combination of dirty and sensitive loads • Branch panels with no upstream protection • Busway feeding sensitive loads • Bus riser feeding multiple floors with critical or sensitive loads
	Low	TG80	• Branch panels with upstream protection • Branch panels with primarily sensitive electronic loading • Branch panels deep within a facility
"A"	Lowest	TG60	• Branch panels with upstream protection • Branch panels with primarily sensitive electronic loading



Surge current capacities: How much is enough?

How much protection does your facility require? ANSI/IEEE C62.41 states that a "typical" service entrance transient delivers a current magnitude of 10,000 amps. So why are products with hundreds of thousands of amps recommended for top-level protection?

Reliable data sources illustrate that some "non-typical" current magnitudes may be in excess of 200,000 amps. Additionally, lightning strikes often consist of four to six "hits" and may be as high as 40 "hits." Therefore, suppression filter systems must provide adequate protection to ensure that such events do not cause failure in the act of duty. Current Technology products are designed to function as "permanent protection" when properly selected, applied and installed. In addition to withstanding transients of large magnitudes, Current Technology suppression filter systems are built to endure repetitive transient conditions. Recognizing that MOVs are finite elements when exposed to high currents, it's easy to understand the importance of ensuring that each MOV is never stressed beyond life-threatening limits.

The only method of increasing MOV life expectancy is to reduce current exposure. Current Technology research and development engineers design products with precise current sharing capabilities that will survive the routine transients while maintaining enough "horsepower" to handle episodes of large, catastrophic magnitude. (For more information, request Current Technology's *"Higher Transient Protection Levels"* technical manuscript.)

Selenium-enhanced™ MasterPLAN® facilitywide protection

More power, more protection, twice the warranty.

All TransGuard models are backed by Current Technology's Seven Year Product Warranty which guarantees performance when properly installed, even in the event of direct lightning strikes. By simultaneously purchasing and installing selenium-enhanced™ SELect® SEL300 or SEL250 suppression filter systems at the service entrance and placing one or more TransGuard units downstream, the warranty for TransGuard units is automatically extended to 10 years. Current Technology's 10- Year Extended Warranty is also extended to Electronic Grade Panelboards®, Control**Guard**® and **Guard**Bus® suppression filter systems installed simultaneously with SEL300 or SEL250 models. (See MasterPLAN Selenium-Enhanced 10-Year Warranty for complete details.)

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 single-unit 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 sub-assemblies 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.

Standard TG300 Model Numbers

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	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
120/240 120/208	L-N	325 / 375	425/450	650 / 775	400/400
	L-G	400 / 450	425/450	650 / 825	500/500
	N-G	350 / 350	475 / 475	750 / 750	500/500
	L-L	400 / 500	775 / 850	950 / 1250	700/700
277/480	L-N	550 / 600	875 / 900	1125 / 1225	800/800
	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

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.

1.01/C-1818

Fiberglass reinforced polyester enclosure

Metal enclosure

Advanced electrical transient protection for high 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

- Service entrances near utility substations
- Service entrances on grid with other large industrial users
- Lower ampacity service entrances
- Service entrance remotely located from utility power factor correction capacitors and grid switching
- Large distribution panels

Single/Repetitive Surge Current Capacities

Protection mode	Single pulse surge current capacity/mode	Repetitive surge current capacity/mode
Line-to-Neutral	250,000 amps	7,000 impulses
Line-to-Ground	250,000 amps	7,000 impulses
Neutral-to-Ground	250,000 amps	7,000 impulses
Line-to-Line	250,000 amps	7,000 impulses
Per Phase	500,000 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. Due to present industry test equipment limitations, single pulse surge current capacities over 200,000 amps are established via testing of individual components or sub-assemblies 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.

Standard TG250 Model Numbers

TG250-120/208-3GY	TG250-120/240-2G
TG250-220/380-3GY	TG250-120/240-3GHD
TG250-277/480-3GY	TG250-240-3DG
TG250-347/600-3GY	TG250-480-3DG

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
120/240 120/208	L-N	325 / 375	425/450	650 / 775	400/400
	L-G	400 / 450	425/450	650 / 825	500/500
	N-G	350 / 350	475 / 475	750 / 750	500/500
	L-L	400 / 500	775 / 850	950 / 1250	700/700
277/480	L-N	550 / 600	875 / 900	1125 / 1225	800/800
	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
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.

Fiberglass reinforced polyester enclosure

Metal 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

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
120/240 120/208	L-N	325 / 375	425/450	650 / 775	400/400
	L-G	400 / 450	425/450	650 / 825	500/500
	N-G	350 / 350	475 / 475	750 / 750	500/500
	L-L	400 / 500	775 / 850	950 / 1250	700/700
277/480	L-N	550 / 600	875 / 900	1125 / 1225	800/800
	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

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 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: 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

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.

Fiberglass reinforced polyester enclosure

Metal enclosure

Advanced electrical transient protection for 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

- Large distribution panels
- Service entrance distribution panelboards
- Heavy equipment (UPS, elevators, etc.) located near unprotected service entrance
- Panels feeding variable speed drives
- Non-service entrance motor control centers utilizing drives, PLCs, soft-start starters, electronic starters, electronic control systems and electronic monitoring

Standard TG150 Model Numbers

TG150-120/208-3GY	TG150-120/240-2G
TG150-220/380-3GY	TG150-120/240-3GHD
TG150-277/480-3GY	TG150-240-3DG
TG150-347/600-3GY	TG150-480-3DG

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
120/240 120/208	L-N	325 / 350	425 / 450	625 / 725	400/400
	L-G	400 / 450	425 / 475	625 / 750	500/500
	N-G	375 / 375	475 / 475	750 / 750	400/500
	L-L	375 / 475	775 / 850	975 / 1200	700/700
277/480	L-N	525 / 550	875 / 925	1150 / 1200	900/900
	L-G	850 / 875	850 / 875	1075 / 1175	1000/1000
	N-G	700 / 725	900 / 900	1200 / 1200	800/800
	L-L	675 / 725	1675 / 1725	1950 / 2175	1800/1500

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.

1.01/C-1818

Filtering Attenuation Frequencies

50KHz	100KHz	500KHz	1MHz	5MHz	10MHz	50MHz	100MHz
50dB	44dB	34dB	33dB	34dB	36dB	47dB	53dB

Single/Repetitive Surge Current Capacities

Protection mode	Single pulse surge current capacity/mode	Repetitive surge current capacity/mode
Line-to-Neutral	150,000 amps	5,500 impulses
Line-to-Ground	150,000 amps	5,500 impulses
Neutral-to-Ground	150,000 amps	5,500 impulses
Line-to-Line	150,000 amps	5,500 impulses
Per Phase	300,000 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: 17.5"H x 15.5"W x 7"D

Metal: 20"H x 16"W x 9.5"D

Weight:

Fiberglass reinforced polyester: 40 lbs.

Metal: 59 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.

Fiberglass reinforced polyester enclosure

Metal enclosure

Advanced electrical transient protection for 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

- Large distribution panels
- Service entrance distribution panelboards
- Heavy equipment (UPS, elevators, etc.) located near unprotected service entrance
- Panels feeding variable speed drives
- Non-service entrance motor control centers utilizing drives, PLCs, soft-start starters, electronic starters, electronic control systems and electronic monitoring

Standard TG125 Model Numbers

TG125-120/208-3GY	TG125-120/240-2G
TG125-220/380-3GY	TG125-120/240-3GHD
TG125-277/480-3GY	TG125-240-3DG
TG125-347/600-3GY	TG125-480-3DG

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
120/240 120/208	L-N	325 / 350	425 / 450	625 / 725	400/400
	L-G	400 / 450	425 / 475	625 / 750	500/500
	N-G	375 / 375	475 / 475	750 / 750	400/500
	L-L	375 / 475	775 / 850	975 / 1200	700/700
277/480	L-N	525 / 550	875 / 925	1150 / 1200	900/900
	L-G	850 / 875	850 / 875	1075 / 1175	1000/1000
	N-G	700 / 725	900 / 900	1200 / 1200	800/800
	L-L	675 / 725	1675 / 1725	1950 / 2175	1800/1500

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
50dB	44dB	34dB	33dB	34dB	36dB	47dB	53dB

Single/Repetitive Surge Current Capacities

Protection mode	Single pulse surge current capacity/mode	Repetitive surge current capacity/mode
Line-to-Neutral	125,000 amps	5,000 impulses
Line-to-Ground	125,000 amps	5,000 impulses
Neutral-to-Ground	125,000 amps	5,000 impulses
Line-to-Line	125,000 amps	5,000 impulses
Per Phase	250,000 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:
17.5"H x 15.5"W x 7"D
Metal: 20"H x 16"W x 9.5"D

Weight:

Fiberglass reinforced polyester: 40 lbs.
Metal: 59 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.

1.01/C-1818

Fiberglass reinforced polyester enclosure

Metal enclosure

Advanced electrical transient protection for medium-to-low 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

- Branch panels heavily loaded with sensitive electronic equipment
- Branch panels with combination of dirty and sensitive loads
- Branch panels with no upstream protection
- Busway feeding sensitive loads
- Bus riser feeding multiple floors with critical or sensitive loads

Standard TG100 Model Numbers

TG100-120/208-3GY	TG100-120/240-2G
TG100-220/380-3GY	TG100-120/240-3GHD
TG100-277/480-3GY	TG100-240-3DG
TG100-347/600-3GY	TG100-480-3DG

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
120/240 120/208	L-N	325 / 350	425 / 450	625 / 725	400/400
	L-G	400 / 450	425 / 475	625 / 750	500/500
	N-G	375 / 375	475 / 475	750 / 750	400/500
	L-L	375 / 475	775 / 850	975 / 1200	700/700
277/480	L-N	525 / 550	875 / 925	1150 / 1200	900/900
	L-G	850 / 875	850 / 875	1075 / 1175	1000/1000
	N-G	700 / 725	900 / 900	1200 / 1200	800/800
	L-L	675 / 725	1675 / 1725	1950 / 2175	1800/1500

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
50dB	44dB	34dB	33dB	34dB	36dB	47dB	53dB

Single/Repetitive Surge Current Capacities

Protection mode	Single pulse surge current capacity/mode	Repetitive surge current capacity/mode
Line-to-Neutral	100,000 amps	4,500 impulses
Line-to-Ground	100,000 amps	4,500 impulses
Neutral-to-Ground	100,000 amps	4,500 impulses
Line-to-Line	100,000 amps	4,500 impulses
Per Phase	200,000 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:
17.5"H x 15.5"W x 7"D
Metal: 20"H x 16"W x 9.5"D

Weight:

Fiberglass reinforced polyester: 40 lbs.
Metal: 59 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.

Fiberglass reinforced polyester enclosure

Metal enclosure

Advanced electrical transient protection for low 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

- Branch panels with upstream protection
- Branch panels with primarily sensitive electronic loading
- Branch panels deep within a facility

Standard TG80 Model Numbers

TG80-120/208-3GY	TG80-120/240-2G
TG80-220/380-3GY	TG80-120/240-3GHD
TG80-277/480-3GY	TG80-240-3DG
TG80-347/600-3GY	TG80-480-3DG

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
120/240 120/208	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
	L-L	425 / 475	725 / 800	900 / 1125	700/700
277/480	L-N	500 / 525	875 / 900	1050 / 1175	900/900
	L-G	825 / 875	825 / 875	1025 / 1150	1000/1000
	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	80,000 amps	4,000 impulses
Line-to-Ground	80,000 amps	4,000 impulses
Neutral-to-Ground	80,000 amps	4,000 impulses
Line-to-Line	80,000 amps	4,000 impulses
Per Phase	160,000 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.

Fiberglass reinforced polyester enclosure

Metal enclosure

Advanced electrical transient protection for lowest 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

- 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
120/240 120/208	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
	L-L	425 / 475	725 / 800	900 / 1125	700/700
277/480	L-N	500 / 525	875 / 900	1050 / 1175	900/900
	L-G	825 / 875	825 / 875	1025 / 1150	1000/1000
	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.

All Current Technology products are proudly engineered and manufactured in the U.S. at our world headquarters. For more information, call 1-800-238-5000 or visit our extensive website at www.currenttechnology.com.

Although our numerous engineering patents, dedication to power reliability education and acknowledged industry leadership are proof of Current Technology's commitment to quality, innovation and reliability, the true measure of our integrity and success is our growing list of satisfied customers. We look forward to adding your company to this partial customer list.

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Shaw Industries
McDonnell-Douglas
Mercedes-Benz
Frito Lay
Nissan
Georgia Pacific
Pepsico
Intel
Henredon
International Paper
Boeing
Peterbilt
Sony
Nabisco
Weyerhauser

Biomedical/Laboratory

Eli Lilly
Biomira
Schlering-Plough
M.D. Anderson Cancer Center
Lambert/Parke Davis
Abbott Labs
Merck
Underwriters Laboratories
UC Davis Medical Center

Retail/POS/Entertainment

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BLOCKBUSTER Video
Wal-Mart
Planet Hollywood
T.G.I. Friday's
Neiman-Marcus
Mall of America
Home Depot
Harrah's Casinos
JCPenney
La Quinta Inns
Fingerhut
Virgin Records

Financial/Insurance

Merrill Lynch
Paine Weber
Price Waterhouse
Chemical Bank
American Express
Lincoln National Life
Blue Cross Blue Shield
Liberty Mutual
Federal Reserve Bank
Ernst & Young
Goldman Sachs
NationsBank
New York Life
USAA

Education

University of Michigan
Amherst College
Ohio State University
UCLA
Purdue University
Texas A&M University
Colorado School of Mines
U.S. Air Force Academy
Mississippi State University

Utilities

Piedmont Natural Gas
Racine Wastewater Treatment Plant
Virginia Power
East Kentucky Power Cooperative
Illinois Power
San Diego Gas
Houston Light and Power
LA Gas

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Coors Field
Palm Beach Judicial Center
Thousand Oaks Civic Arts Plaza
The Alamodome
Mt. Olive Correctional Facility
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Broadcast/Telecommunications

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HBO
Pacific Bell
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Cinar Studios
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