PRODUCT SPECIFICATIONS





MODEL NUMBER SCHEME (TG3™)

E.g.: TG3-050-208-3Y-PNT-M6E-F2 (as shown in above photo)

TG3	— 050 —	- 208 -	- 3Y -	- PNT —	M6E -	– F 2
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kA Rating (Must Choose One)

Available TG3™ kA Ratings:	
050, 080, 100, 125, 150, 200,	
250, 300	

Voltage* (Must Choose One)				
208	120/208			
240	120/240			
380	220/380			
480	277/480			
600	347/600			

Configuration* (Must Choose One)

1G	1-Phase, Grounded
2G	2-Phase, Grounded, Split-Phase
3Y	3-Phase, Grounded, Wye
3R	3-Phase, Grounded, High-Resistance
ЗН	3-Phase, Grounded, High-Leg Delta
3D	3-Phase, Grounded, Delta

Enclosure (Must Choose One)

MN	Metal Without Disconnect
MD	Metal With Disconnect
SN	Stainless Steel Without Disconnect
SD	Stainless Steel With Disconnect
PN	Fiberglass Reinforced Polyester
	Without Disconnect

Cable Entry (Must Choose One)

1	iop Feed	
В	Bottom Feed	
Mo	nitoring (Must Choose One)	
MO	No local monitoring	

MO	No local monitoring
	(see remote MxX stand-alone option)
M1	LED/Phase + Audible Alarm,
	Dry Relay Contacts
M2	M1 + Surge Counter
МЗ	Advanced Monitoring,
	Character Display, Modbus RTU
M4E	M3 + Ethernet, Modbus TCP

M5	Advanced Monitoring,			
	Graphics Display, Modbus RTU			
M6E	M5 + Ethernet, Modbus TCP			

Filter	(Must Choose One)
F	Filter
N	No Filter

Optional Feature (May Choose One) 2 Test Port

Stand-Alone Options

(To Be Ordered As Separate Items)

DTS	DTS-2 Diagnostic Test Set		
MxX	Remote Monitor Extension		
	M1X through M6EX		
HPI	HPI Cable		

TransGuard® TG3™ suppression filter systems feature a powerful failure-free ISM™ (Integrated Suppression Module). The ISM™ contains individual thermally fused and protected MOVs, surge-rated copper busing, robust filtering and advanced remote communications capabilities. The TG3™ protects today's facilities from costly downtime and equipment damage caused by routine or catastrophic electrical disturbances.

Maximum Surge Current Rating	50kA Per Mode, 100kA Per Phase
Nominal Discharge Surge Current	I-n = 20kA
Safety Listings	UL Listed 1449 4th Edition for Type 1 and Type 2 SPD applications, cUL, and UL 1283 / Meets Requirements for UL 96A / Compliant to IEEE C62.41.1-2002, C62.41.2-2002 and C62.45-2002 / NFPA 70 [NEC], Article 285 / RoHS Compliant / CE, IEC 61643-11-2011 / FCC Part B Class B / EMC Directive 2004/108/EC / Low Voltage Directive 2006/95/EC
Protection Method	Thermally protected MOVs, Capacitive Filt
Product Design	Individual thermally fused and protected MC and All Copper, Tin-plated Bus
Dimensions	Metal/Stainless Steel: 16"H x 16"W x 9.2 Fiberglass Reinforced Polyester: 14"H x 12.75"W x 6.6"D
Weight	Metal/Stainless Steel: 40 lbs. Fiberglass Reinforced Polyester: 17 lbs.
Enclosure Type	NEMA 4/12 Standard (NEMA 4X Option)
Installation Location	Outdoor or Indoor
Operating Environment	-25°C to +60°C 5% – 95% Non-Condensing Humidity
Fault Current (SCCR)	200kAIC
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	15 Years

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10 KHz	100 KHz	1 MHz	10 MHz	Max at 142 KHz	
18.1 dB	44 dB	22.8 dB	15.3 dB	54.6 dB	

Single/Repetitive Surge Current Capacities (Tested)**

Single Pulse Surge	Repetitive Surge				
Current Capacity/Mode	Current Capacity/Mode				
50,000A	5,000 Impulses				
50,000A	5,000 Impulses				
50,000A	5,000 Impulses				
100,000A	10,000 Impulses				
100,000A	10,000 Impulses				
	Current Capacity/Mode 50,000A 50,000A 50,000A 100,000A				

Maximum Continuous Operating Voltage (MCOV)

Voltage	L-N MCOV	Voltage	L-L MCOV
120V	150V	240V	300V
277V	320V	480V	552V
347V	420V	600V	690V

^{**} Data based on actual tests. Contact factory for test reports







DIMENSIONAL SPECIFICATIONS

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(H1)

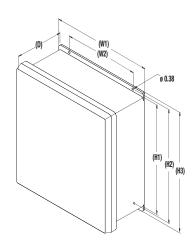
(H2) (H3)

Metal/Stainles	ss Steel
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TG3™/50	Inches	(mm)				
H1	16.00	(406.4)				
H2	17.25	(438.2)				
H3	18.50	(469.9)				
W1	16.00	(406.4)				
W2	10.00	(254.0)				
D	9.20	(233.7)				

Fiberglass	Reinforced	Polyester
TOOM/EO		, ,

TG3"/50	Inches	(mm)
H1	14.00	(355.6)
H2	14.75	(374.7)
H3	15.50	(393.7)
W1	12.75	(323.9)
W2	10.00	(254.0)
D	6.60	(167.6)



VOLTAGE/CONFIGURATION OPTIONS

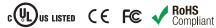
Not all voltage configurations are displayed, contact Thomas & Betts Power Solutions for additional configurations.

	1-Phase, Grounded	2-Phase, Grounded, Split-Phase	3-Phase, Grounded, Wye	3-Phase, Grounded, High-Resistance	3-Phase, Grounded, High-Leg Delta	3-Phase, Grounded, Delta
	1G	2G	3Y	3R	3H	3D
Voltage			Config	uration		
			oulling	urauvi		
120	X		Joining	uration		
	X		X	X		X
120		X				X
120 208	X			X		
120 208 220	X			X	X	X
120 208 220 230	X X X	X		X		X
120 208 220 230 240	X X X	X	X	X		X X X
120 208 220 230 240 380	X X X	X X	X	X X		X X X

TG3[™]/50 PERFORMANCE DATA

System Voltage	120/240V or 120/208V				277/	480V			347/	600V		480V	Delta	
Protection Mode	L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L	L-G	L-L
MCOV	150	150	150	300	320	320	320	552	420	420	420	690	552	552
B3 Ring Wave 6kV, 500A	490	570	640	500	450	540	570	530	490	520	600	550	1450	530
B3/C1 Combo Wave 6kV, 3kA	614	629	634	1011	1013	1031	950	1857	1197	1219	1175	2369	1542	1857
C3 Combo Wave 20kV, 10kA	980	980	1170	1600	1420	1540	1600	2600	1670	1670	1730	2980	2270	2600
UL 1449 4th Edition VPR 6kV, 3kA	700	700	700	1200	1200	1200	1000	2000	1200	1500	1200	2500	1800	2000

All TG3™ systems voltage protection ratings (VPR) are peak values (±10%) measured from the 90° reference point and are in compliance with test and evaluation procedures outlined in ANSI/IEEE C62.41







Ahorra y contribuye con tu ambiente

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