

MCG Surge

MODELS: PT40 • PT80

Local Panel Surge Protectors

Small, yet packed with the latest technology available for transient voltage surge suppressors. The PT80 and PT40 use high peak current fuses and large thermally-protected varistors to provide both reliable and safe protection for sensitive electronics. Use on local service panels, generators, transfer switches, dedicated equipment, OEM equipment, and residential/smart home applications.

Standout Feature: Small and Mighty

Features:

- Ipeak: PT80: 80,000A/phase / PT40: 40,000A/phase
- Thermally protected varistors with integral fuse element
- All Modes Protected
- Front Panel LED indicators
- Remote 1 Form C relay contacts with status LED
- Neutral - Ground Voltage Monitor LED
- EMI/RFI Filter
- 10 AWG connection cable
- NEMA 1, Powder-Coated Steel Enclosure
- “-EC” option: Event Counter. Add to basic model name.
- DIN-Rail mounting kit available
- Outdoor NEMA 4X enclosure kit w/ clear hinged door option

Made in the

USA



Ipeak = 40,000/80,000A

UL 1449 5th Edition Listed

20-Year Warranty

Filter Attenuation (MIL STD 220A (50Ohm))

db	120VAC	240VAC	277VAC
-30db	50kHz	50kHz	80kHz
-40db	130kHz	130kHz	180kHz
-50db	195kHz	195kHz	270kHz
-60db	230kHz	230kHz	300kHz

SPD Type: Type 2
I(n): 10kA

Maximum Continuous Operating VAC (MCOV): 115% Rated Line Voltage

Varistor MCOV: 125% Rated Line Voltage Minimum (std. models w/o “-xxxV” suffix)

Varistor MCOV: 115% Rated Line Voltage Minimum (models w/ “-xxxV” suffix)

SCCR: 100kA AIC

Surge Current/Phase (8/20µs): 1 Event - PT80: 80kA, PT40: 40kA.

Surge Life/Phase(8/20µs): 10,000 Events - PT80: 3kA, PT40: 2kA

Surge Current/Mode (8/20µs),PT80: L-N: 40kA; L-G: 40kA; N-G: 40kA; L-L: 80kA

Surge Current/Mode (8/20µs),PT40: L-N: 40kA; L-G: 40kA; N-G: 40kA; L-L: 40kA

Surge Current/Mode, “D” Models (8/20µs): **PT80:** L-G: 80KA, L-L: 80KA; **PT40:** L-G: 40KA, L-L: 40kA

Response Time: <5 ns

Status Indicators: LED Status Indicators

Modes of Protection: L-N, L-G, L-L, N-G

Operating Altitude: 13,000ft. (4000m)

Temp. (Operating/Storage): -40 degrees to +70 degrees C/-40 degrees to +85 degrees C

Enclosure: NEMA 1, 16 gauge steel, powder coated

Cable Connection: 10 AWG (5.27mm²) cable, 3 ft. (91.4cm) provided

Dimensions: 6.75” x 7.25” x 4.25” (171 x 184 x 108mm)

Mounting: 5.5” x 8.0”/.220”ID - 4 holes, (140 x 203mm/5.6mm ID) - 4 holes

Optional NEMA 4X enclosure dimensions: 12.0” x 10.0” x 7.0” (305 x 254 x 178 mm)

NEMA 4X Mounting: 12.75” x 8.0”/0.31” ID - 4 holes, (324 x 203mm/8mm ID) - 4 holes

Conduit Connector: 3/4” compression connector

Weight: PT80: 5.75 lbs. (2.61 kg); PT40: 5.40 lbs (2.45kg)

UL File Number: E322161

UL Certification: UL Listed to 1449 5th Edition

ARRA Certification: Complies with ARRA 1605 requirements

Specifications: PT40/80

- ANSI / IEEE C62.41-2002
- IEC 61643-1-1998
- UL 1449, 5th Edition

MODEL PT80	SERVICE	VPR L-N	VPR L-G	VPR N-G	VPR L-L	6kV, 3kA Let-Thru V, L-N
-120Y	120/208VAC, 3Φ, 4W+G	800	800	700	1200	630
-120T	120/240VAC, 1Φ, 3W+G	800	800	700	1200	630
-120S	120VAC, 1Φ, 2W+G	800	800	700	N/A	630
-120Y-140V	120/208VAC, 3Φ, 4W+G	700	800	600	1200	590
-120T-140V	120/240VAC, 1Φ, 3W+G	700	800	600	1200	590
-120S-140V	120VAC, 1Φ, 2W+G	700	800	600	N/A	590
-220Y	220/380VAC, 3Φ, 4W+G	1200	1500	1200	2500	1050
-220S	220VAC, 1Φ, 2W+G	1200	1500	1200	N/A	1050
-240DCT	240/120/120VAC, 3Φ, 4W+G	800/1200	800/1500	700	1200/1800	630/990
-240DCT-140V	240/120/120VAC, 3Φ, 4W+G	700/1200	800/1500	600	1200/1800	590/990
-240Y	240/415VAC, 3Φ, 4W+G	1200	1500	1200	2500	1050
-240S	240VAC, 1Φ, 2W+G	1200	1500	1200	N/A	1050
-277Y	277/480VAC, 3Φ, 4W+G	1200	1500	1200	2500	1050
-277S	277VAC, 1Φ, 2W+G	1200	1500	1200	N/A	1050
-347Y*	347VAC, 3Φ, 4W+G	N/A	N/A	N/A	N/A	1300
-240Y-320V	240/415VAC, 3Φ, 4W+G	1200	1200	1000	1800	990
-240S-320V	240VAC, 1Φ, 2W+G	1200	1200	1000	N/A	990
-277Y-320V	277/480VAC, 3Φ, 4W+G	1200	1200	1000	1800	990
-277S-320V	277VAC, 1Φ, 2W+G	1200	1200	1000	N/A	990
-240D	240VAC, 3Φ, 3W+G	N/A	1200	N/A	1800	990 (L-G)
-480D	480VAC, 3Φ, 3W+G	N/A	1800	N/A	4000	1790 (L-G)
-600D*	600VAC, 3Φ, 3W+G	N/A	N/A	N/A	N/A	1940 (L-G)
MODEL PT40	SERVICE	VPR L-N	VPR L-G	VPR N-G	VPR L-L	6kV, 3kA Let-Thru V, L-N
-120Y	120/208VAC, 3Φ, 4W+G	800	1500	700	1500	630
-120T	120/240VAC, 1Φ, 3W+G	800	1500	700	1500	630
-120S	120VAC, 1Φ, 2W+G	800	1500	700	N/A	630
-120Y-140V	120/208VAC, 3Φ, 4W+G	700	1200	600	1500	590
-120T-140V	120/240VAC, 1Φ, 3W+G	700	1200	600	1500	590
-120S-140V	120VAC, 1Φ, 2W+G	700	1200	600	N/A	590
-220Y	220/380VAC, 3Φ, 4W+G	1200	2500	1200	2500	1050
-220S	220VAC, 1Φ, 2W+G	1200	2500	1200	N/A	1050
-240DCT	240/120/120VAC, 3Φ, 4W+G	800/1200	1500/2500	700	1500/1800	630/990
-240DCT-140V	240/120/120VAC, 3Φ, 4W+G	700/1200	1200/2500	600	1500/1800	590/990
-240Y	240/415VAC, 3Φ, 4W+G	1200	2500	1200	2500	1050
-240S	240VAC, 1Φ, 2W+G	1200	2500	1200	N/A	1050
-277Y	277/480VAC, 3Φ, 4W+G	1200	2500	1200	2500	1050
-277S	277VAC, 1Φ, 2W+G	1200	2500	1200	N/A	1050
-347Y*	347VAC, 3Φ, 4W+G	N/A	N/A	N/A	N/A	1300
-240Y-320V	240/415VAC, 3Φ, 4W+G	1200	2000	1000	2000	990
-240S-320V	240VAC, 1Φ, 2W+G	1200	2000	1000	N/A	990
-277Y-320V	277/480VAC, 3Φ, 4W+G	1200	2000	1000	2000	990
-277S-320V	277VAC, 1Φ, 2W+G	1200	2000	1000	N/A	990
-240D	240VAC, 3Φ, 3W+G	N/A	1200	N/A	2000	990 (L-G)
-480D	480VAC, 3Φ, 3W+G	N/A	2000	N/A	4000	1820 (L-G)
-600D*	600VAC, 3Φ, 3W+G	N/A	N/A	N/A	N/A	19630 (L-G)

*not tested to UL1449 standards