

MCG Surge

MODELS: PT40 • PT80BB Version

Local Panel Surge Protectors

The PT80 and PT40 “-BB” models offer a low cost local panel protection solution. The “-BB” suffix stands for “bare bones” - meaning we have eliminated some features that not all applications require, and passed the savings on to you. The protection circuits are the same as the standard models, comprised of high peak surge current fuses and large thermally-protected varistors. The front panel LEDs quickly display the protection of the protector. These models may be used on service panels, small generators, transfer switches, or dedicated to a single piece of critical equipment or control panel.

Standout Feature: Bare Bones; Full Protection

Features:

- I_{peak}: PT80: 80,000A/phase / PT40: 40,000A/phase
- Thermally protected varistors with integral fuse element
- All Modes Protected
- Front Panel LED indicators
- 10 AWG connection cable
- NEMA 1, Powder-Coated Steel Enclosure
- DIN-Rail mounting kit available
- Outdoor NEMA 4X encl. kit w/ clear hinged door available
- 20-Year No Nonsense Warranty

Model Ordering Example: A PT80-BB in 120Y vottage configuration
PT80-120Y-BB



I_{peak} = 40,000/80,000A

UL 1449 5th Edition Listed

20-Year Warranty

Made in the
USA



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 (8/20 μ s): 1 Event - PT80: 80kA. PT40: 40kA.
Surge Life/Phase(8/20 μ s): 10,000 Events - PT80: 3kA, PT80: 2kA
Surge Current/Mode (8/20 μ s),PT80: L-N: 40kA; L-G: 40kA; N-G: 40kA; L-L: 80kA
Surge Current/Mode (8/20 μ s),PT40: L-N: 40kA; L-G: 40kA; N-G: 40kA; L-L: 40kA
Surge Current/Mode, “D” Models (8/20 μ s): **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

MCG Surge Protection - 12 Burt Drive, Deer Park, NY 11729 - Made in the USA - www.mcgsurge.com
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Specifications: PT40/80-BB

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

MODEL PT80-BB	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-BB	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