



SurgeFree™

MODELS

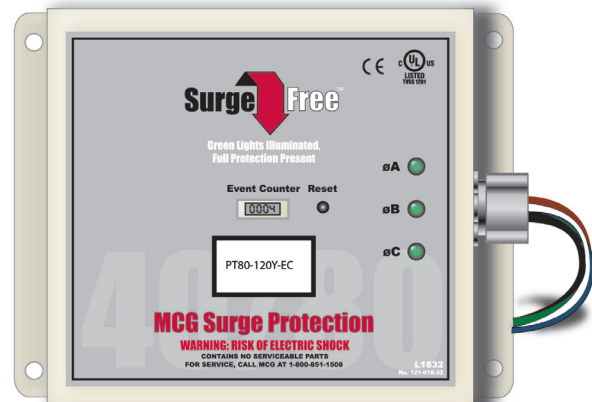
PT80 • PT40

Local Panel Protection

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

FEATURES

- I_{peak}: 80,000A/Phase (PT80)
40,000A/Phase (PT40)
- Thermally protected varistors with integral fuse element
- Surge event counter optional
- Remote 1 Form C relay contacts with status LED
- Neutral - Ground Voltage Monitor LED
- All modes protected
- Front Panel Status Monitoring
- 10 AWG connection cable
- EMI/RFI filter
- NEMA 1, Powder-Coated Steel Enclosure
- DIN-Rail mounting kit available
- Optional outdoor non-metallic enclosure kit - NEMA 4X



I_{peak} up to 80,000A

UL 1449, 3rd Ed. Listed

20-Year Warranty

Filter Attenuation

MIL STD 220A (50 Ohm):	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 : 5kA
Maximum Continuous Operating VAC (MCOV): 115% Rated Line Voltage
Varistor MCOV: 125% Rated Line Voltage Minimum (standard models w/o "-xxxV" suffix)
Varistor MCOV: 115% Rated Line Voltage Minimum (models w/ "-xxxV" suffix)
SCCR: 100kA AIC
Surge Current/Phase (8/20μs): PT80 1 Event: 80kA; PT40 1 Event: 40kA.
Surge Life/Phase (8/20μs): PT80 10,000 Events: 3kA; PT40 10,000 Events: 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: < 5ns
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° to +70°C/-40° to +85°C
Enclosure: NEMA 1, 16 gauge steel (0.050" thick), powder coated
Cable Connection: 10 AWG (5.27mm ²) cable, 3 ft. (91.4cm) provided
Dimensions: 6.75" x 7.25" x 6" (171 x 184 x 108mm)
Mounting: 5.5" x 8.0"/.220"ID - 4 holes, (140 x 203mm/5.6mm 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 3rd Edition
ARRA Certification: Complies with ARRA 1605 requirements



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Specifications

- ANSI/IEEE C62.41-2002
- IEC 61643-1-1998
- UL 1449, 3rd Ed.

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

		6kV, 3kA Let-Thru V				
Model PT40	Service	VPR L-N	VPR L-G	VPR N-G	VPR L-L	L-N
-120Y	120/208VAC, 3 ϕ , 4W+Gnd	800	1500	700	1500	630
-120T	120/240VAC, 1 ϕ , 3W+Gnd	800	1500	700	1500	630
-120S	120VAC, 1 ϕ , 2W+Gnd	800	1500	700	n/a	630
-120Y-140V	120/208VAC, 3 ϕ , 4W+Gnd	700	1200	600	1500	590
-120T-140V	120/240VAC, 1 ϕ , 3W+Gnd	700	1200	600	1500	590
-120S-140V	120VAC, 1 ϕ , 2W+Gnd	700	1200	600	n/a	590
-220Y	220/380VAC, 3 ϕ , 4W+Gnd	1200	2500	1200	2500	1050
-220S	220VAC, 1 ϕ , 2W+Gnd	1200	2500	1200	n/a	1050
-240DCT	240/120/120VAC, 3 ϕ , 4W+Gnd	800/1200	1500/2500	700	1500/1800	630/990
-240DCT-140V	240/120/120VAC, 3 ϕ , 4W+Gnd	700/1200	1200/2500	600	1500/1800	590/990
-240Y	240/415VAC, 3 ϕ , 4W+Gnd	1200	2500	1200	2500	1050
-240S	240VAC, 1 ϕ , 2W+Gnd	1200	2500	1200	n/a	1050
-277Y	277/480VAC, 3 ϕ , 4W+Gnd	1200	2500	1200	2500	1050
-277S	277VAC, 1 ϕ , 2W+Gnd	1200	2500	1200	n/a	1050
-347Y*	347VAC, 3 ϕ , 4W+Gnd	n/a	n/a	n/a	n/a	1300
-240Y-320V	240/415VAC, 3 ϕ , 4W+Gnd	1200	2000	1000	2000	990
-240S-320V	240VAC, 1 ϕ , 2W+Gnd	1200	2000	1000	n/a	990
-277Y-320V	277/480VAC, 3 ϕ , 4W+Gnd	1200	2000	1000	2000	990
-277S-320V	277VAC, 1 ϕ , 2W+Gnd	1200	2000	1000	n/a	990
-240D	240VAC, 3 ϕ , 3W+Gnd	n/a	1200	n/a	2000	990 (L-G)
-480D	480VAC, 3 ϕ , 3W+Gnd	n/a	2000	n/a	4000	1820 (L-G)
-600D*	600VAC, 3 ϕ , 3W+Gnd	n/a	n/a	n/a	n/a	1960 (L-G)

* Not tested to UL1449

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