



SurgeFreeTM

MODELS

PT80 • PT40

Local Panel Protection

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 applications.

FEATURES

- I peak: 80,000A/Phase (PT80)
40,000A/Phase (PT40)
- 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.
Not Available on "-BB" models.
- "-BB" option: Add to basic model name. Deletes the remote relay, noise filter, and Neutral to Ground voltage monitor features. Retains front panel LED indicators.
- DIN-Rail mounting kit available
- Outdoor NEMA 4X enclosure kit w/ clear hinged door available



I peak up to 80,000A

UL 1449, 4th 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 :	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):	PT80 1 Event: 80kA; PT40 1 Event: 40kA.
Surge Life/Phase (8/20 μ s):	PT80 10,000 Events: 3kA; PT40 10,000 Events: 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:	< 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, For "-EC" models: -35° to +70°C/-35° 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 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)
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 4th Edition
ARRA Certification:	Complies with ARRA 1605 requirements



Specifications

- ANSI/IEEE C62.41-2002
- IEC 61643-1-1998
- UL 1449, 4th 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