



SurgeFree™

Models

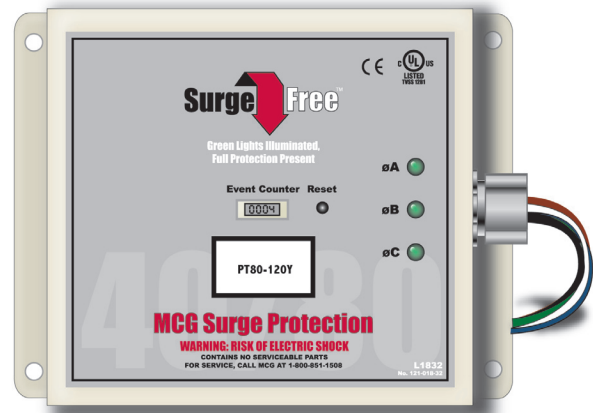
PT80 • PT40

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 electronics. The units are ideal for use on local service panels, generators, transfer switches, dedicated equipment, OEM equipment and residential applications. Many useful standard features are designed in, including a set of relay contacts for remote monitoring, LED status indicators, and a rugged NEMA type 1 powder coated steel enclosure. The protectors are backed by our "No Nonsense" 20-year warranty and are UL1449, 2nd Ed. Listed, including the new requirements of February 9th, 2007.

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 to Ground Voltage Monitor LED
- All modes protected
- Front Panel Status Monitoring
- 10 AWG connection cable
- EMI/RFI filter
- NEMA 1, Powder Coated Steel Enclosure



I peak up to 80,000A

UL 1449, 2nd Ed. Listed
Including the requirements of Feb 9, 2007



20-Year Warranty

Filter Attenuation			
MIL STD 220A (50 Ohm):	120 VAC	240 VAC	277 VAC
-30db	50kHz	50kHz	80kHz
-40db	130kHz	130kHz	180kHz
-50db	195kHz	195kHz	270kHz
-60db	230kHz	230kHz	300kHz

Surge Current/Phase (8/20μs) PT80: 1 Event - 80kA. 10,000 Events: 3kA.

Surge Current/Phase (8/20μs) PT40: 1 Event - 40kA. 10,000 Events: 2kA.

Status Indicators: Green LED Indicators - Protection Status,
Red LED Indicator - N to G Voltage Monitor,
Green relay contact status LED.

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 (5.27mm²) 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

Weight: 5.75 lbs. (2.61kg) for PT80

5.40 lbs. (2.45kg) for PT40



Specifications

- ANSI/IEEE C62.41-2002
- IEC 61643-1-1998
- UL 1449, 2nd Edition including requirements of Feb 9, 2007

Model PT80

Model PT80	Service	MOV Voltage (MCOV)		UL SVR 500A 8/20 μ s	Cat. B3 6kV, 3kA Let-Thru V L-N
		High Headroom (Std.)/ Low Headroom (Opt.)	VAC		
-120S	120VAC, 1 ϕ , 2W+Gnd		180 / 140	500 / 400	630 / 590
-120T	120/240, 1 ϕ , 3W+Gnd		180 / 140	500 / 400	630 / 590
-120Y	120/208, 3 ϕ , 4W+Gnd, Wye		180 / 140	500 / 400	630 / 590
-220Y	220/380, 3 ϕ , 4W+Gnd, Wye		390 / 320	1000 / 900	1050 / 990
-240S	240VAC, 1 ϕ , 2W+Gnd		390 / 320	1000 / 900	1050 / 990
-240Y	240/415, 3 ϕ , 4W+Gnd, Wye		390 / 320	1000 / 900	1050 / 990
-240DCT*	240/120/120, 3 ϕ , 4W+Gnd	320 & 180 / 320 & 140		900 / 500, 900 / 400	990 / 630, 990 / 590
-277Y	277/480, 3 ϕ , 4W+Gnd, Wye		390 / 320	1000 / 900	1050 / 990
-347Y**	347/600, 3 ϕ , 4W+Gnd, Wye		460 / -	-	1300
-240D	240, 3 ϕ , 3W+Gnd		390 / 320	1000 / 900	990 / 950 (L-G)
-480D	480, 3 ϕ , 3W+Gnd		620 / -	1500	1790 (L-G)
-600D**	600, 3 ϕ , 3W+Gnd		750 / -	-	1940 (L-G)

* High-leg Delta Center Tapped ** Not Tested to UL1449

Note: All let-thru levels measured with 6" lead length.

Model PT40

Model PT80	Service	MOV Voltage (MCOV)		UL SVR 500A 8/20 μ s	Cat. B3 6kV, 3kA Let-Thru V L-N
		High Headroom (Std.)/ Low Headroom (Opt.)	VAC		
-120S	120VAC, 1 ϕ , 2W+Gnd		180 / 140	500 / 400	630 / 590
-120T	120/240, 1 ϕ , 3W+Gnd		180 / 140	500 / 400	630 / 590
-120Y	120/208, 3 ϕ , 4W+Gnd, Wye		180 / 140	500 / 400	630 / 590
-220Y	220/380, 3 ϕ , 4W+Gnd, Wye		390 / 320	1000 / 900	1050 / 990
-240S	240VAC, 1 ϕ , 2W+Gnd		390 / 320	1000 / 900	1050 / 990
-240Y	240/415, 3 ϕ , 4W+Gnd, Wye		390 / 320	1000 / 900	1050 / 990
-240DCT*	240/120/120, 3 ϕ , 4W+Gnd	320 & 180 / 320 & 140		900 / 500, 900 / 400	990 / 630, 990 / 590
-277Y	277/480, 3 ϕ , 4W+Gnd, Wye		390 / 320	1000 / 900	1050 / 990
-347Y**	347/600, 3 ϕ , 4W+Gnd, Wye		460 / -	-	1300
-240D	240, 3 ϕ , 3W+Gnd		390 / 320	1000 / 900	1030 / 990 (L-G)
-480D	480, 3 ϕ , 3W+Gnd		620 / -	1500	1820 (L-G)
-600D**	600, 3 ϕ , 3W+Gnd		750 / -	-	1960 (L-G)

* High-leg Delta Center Tapped ** Not Tested to UL1449

Note: All let-thru levels measured with 6" lead length.

A Note On Headroom A surge protector responds to increases in voltage. Surge protectors triggered by the nominal line voltage are undesirable, consequently headroom is always factored into surge protector design. Long duration voltage swells occur on power lines and can damage a surge protector, leaving facility equipment vulnerable. By employing higher headroom, continuity of surge protection is guaranteed. This feature is standard in MCG surge protectors. Higher headroom allows varistors to ride out voltage swells while ensuring that let-through voltage remains within CBEMA (now ITIC) guidelines. The CBEMA curve is the most accepted graph worldwide for equipment susceptibility analysis.