

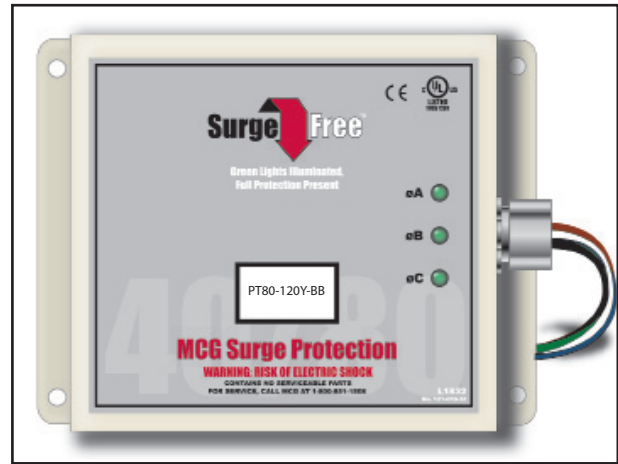
SurgeFree™

MODELS

PT80 • PT40 BB Version

Local Panel Protection

The PT80 and PT40 “-BB” models offer an even lower cost protection solution to the standard PT80 and PT40 models. The “-BB” stands for “bare bones” meaning we have eliminated some features that not all applications require, and passed on the savings to you. The protection circuits are the exact same ones used in the standard models, comprised of high peak surge current fuses and large thermally-protected varistors. The front panel status LEDs let you know, at a glance, the condition 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. The PT80 and PT40 “-BB” models are covered by our standard 20-year no-nonsense warranty.



I_{peak} up to 80,000A

UL 1449, 3rd Ed. Listed

20-Year Warranty

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
- 10 AWG connection cable
- NEMA 1, Powder-Coated Steel Enclosure
- DIN-Rail mounting kit available
- Outdoor NEMA 4X enclosure kit w/ clear hinged door available

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):	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 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 3rd Edition
ARRA Certification:	Complies with ARRA 1605 requirements



Specifications

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

Add “-BB” suffix to any of the below models to order a Bare Bones version

Model	PT80 Service	VPR L-N	VPR L-G	VPR N-G	VPR L-L	L-N	6kV, 3kA Let-Thru V
-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)	

Model	PT40 Service	VPR L-N	VPR L-G	VPR N-G	VPR L-L	L-N	6kV, 3kA Let-Thru V
-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