

BPT Series

Commercial & Industrial SPD with Diagnostics Panel



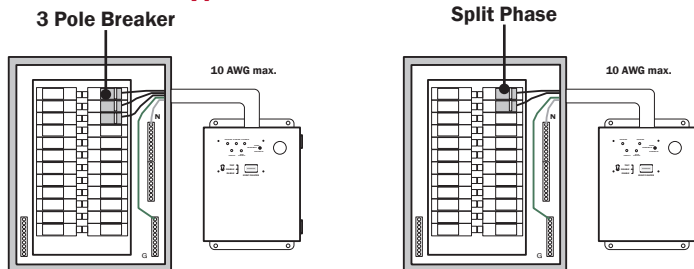
The **BPT Series** is a **Transient Protection System** that provides heavy-duty surge protection and filtering for industrial and commercial sites against the harmful effects of transient energies induced on AC power lines. The BPT's unique construction allows it to deliver low clamping voltages while **safely handling large surge currents**. Configured for parallel installation, units install quickly and easily. All models are suitable for Type 1 or Type 2 service panel applications.

Models are available for all standard electrical services and provide up to 300kA of surge energy handling per phase. This rating is **30 times the energy handling of the IEEE's highest Category C location** rating of 10kA/20kV using an 8x20 μ s waveform. All models carry a 100kA RMS symmetrical fault current rating making expensive disconnects and/or costly replacement fuses unnecessary.

On-board diagnostics include a panel display equipped with LED indicators that continuously monitor the operational **status of the entire unit**. An Audible Alarm is standard with switch positions for test, disable and enable. A Surge Counter and a set of NO/NC dry contacts are also standard. A Remote Monitor and/or Filter are available as options.

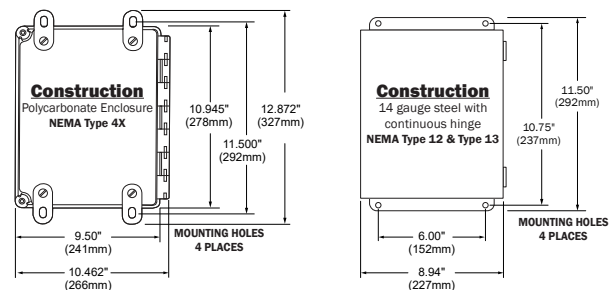
Weather Resistant models available in a NEMA 4X housing with internal diagnostics for harsh environments. Audible Alarm and Surge Counter are not included with the NEMA 3R model.

Typical Installations



(Diagrams not drawn to scale)

Dimensions



Product Specifications

Max Surge Current (8/20) I_{max}	300 kA per Phase	Fusing	Surge/ Thermal
Short-Circuit Current Rating (SCCR)	100 kA RMS Symmetrical	Response Time	< 1 Nanosecond
Repetitive Impulse Rating (I_n)	20 kA*	Listings & Certifications	Listed to ANSI/UL 1449
On/Off Status ♦	LEDs, Audible Alarm	Warranty	10 Year Limited Product Warranty
Housing Rating	NEMA 4, 4X, 12	Connector Method	Hardwired
Most Current Industry Standards	ANSI/UL 1449	Relative Humidity	95% noncondensing
Surge Technology	MOV	Feedback	Surge Counter
Operating Temperature	-40 °F to +140 °F (-40 °C to +60 °C)	Remote Alarm Contacts	NO/NC/C, Isolated Form C
Operating Frequency	47-63 Hz (50/60 Hz Typ.)	Remote Alarm contact capability (Nominal Volts/ Nominal Amps)	AC: 125V/.5A DC: 30V/1A

- * Devices that are rated 480V delta have a 10kA I_n
♦ See **Installation Guide** for detailed instruction on reading On/Off Status

Model Number	Service Voltage	MCOV	L-N	L-G	N-G	L-L
BPTXXX/120-10-#1	120 Volt Single Phase	150V	600V	600V	600V	-
BPTXXX/120-3H-#1	120/240 Volt 3 Phase HL Delta	150/320 V	600/1000V	600/1000V	600V	1200/1800V
BPTXXX/120-3W-#1	120/208 Volt 3 Phase Wye	150V	600V	600V	600V	1200V
BPTXXX/120-SP-#1	120/240 Volt Split Phase	150V	600V	600V	600V	1200V
BPTXXX/220-3W-#1	220/380 Volt, 3 Phase Wye	320V	1000V	1000V	1000V	2000V
BPTXXX/230-3W-#1	230/400 Volt, 3 Phase Wye	320V	1000V	1000V	1000V	2000V
BPTXXX/240-3D-0-1	240 Volt, 3 Phase Delta	320V	-	1000V	-	2000V
BPTXXX/240-3W-#1	240/415 Volt, 3 Phase Wye	320V	1000V	1000V	1000V	2000V
BPTXXX/277-3W-#1	277/480 Volt, 3 Phase Wye	320V	1000V	1000V	1000V	2000V
BPTXXX/480-3D-0-1	480 Volt, 3 Phase Delta	520V	-	1800V	-	4000V

1. Replace **XXX** with: desired kA rating per phase: 100 for 100kA or 200 for 200kA or 300 for 300kA.
2. Replace **#** with: F if filtering is required (available option on WYE Models only).
3. Add: /RM at the end of the Model Number for the Remote Monitoring option.
4. **ENCLOSURE HOUSING OPTIONS:** Add /3R to the end of the Model number for steel NEMA 3R Enclosure or /POL to the end of the Model Number for NEMA 4X Polycarbonate or /SS for NEMA 4 Stainless Steel or /WP for Weatherproof.

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