

▶ PowerPro 50 XNP 7-Mode Surge Protection Device



▶ FEATURES AND BENEFITS

- Provides 50,000 Amp per mode single-pulse surge current capacity (100,000 amps per phase)
- Protects facilities and equipment against the harmful effects of lightning strikes and internally generated electrical transients and noise
- Fulfills the single-pulse surge current capacity testing recommended per NEMA LS-1 2.2.9 and 3.9
- Includes pre-wired pigtail conductors to streamline installation
- Reinforced copper bus design on PCB to minimize system impedances, reducing clamping voltage and increasing reliability
- 10-Year warranty (30-year optional)

▶ OPTIONS

- **-45dB EMI Filter:** F to end of model number
- **Remote Dry Contacts:** Form "C" dry contacts for remote alarm monitoring are available as an option. To order a model with Remote alarm option, add -R to end of Model number.
- **Mounting Options:** The Power Pro can be ordered with several mounting options, that determines where the electrical conduit nipple is mounted. Bottom Side is standard, -TS Top Side; -LS Left Side; -RS Right Side

▶ APPLICABLE APPROVAL AND STANDARDS

- ETL listed to UL 1449 3rd Edition Sept 2009
- Designed & tested to UL1283
- NEMA LS-1
- ANSI / IEEE C62.1, C62.45, C62.11, C62.41

▶ 7-MODE POWER PRO 50 MODEL NUMBERS

Model No.	System Voltage	Service Configuration
XNP-050-120-1G	120 VAC	1 PHASE, 2 WIRE, W/GROUND
XNP-050-240-1G	240 VAC	1 PHASE, 2 WIRE, W/GROUND
XNP-050-120/240-2G	120/240 VAC	1 PHASE, 3 WIRE SPLIT PHASE, W/GROUND
XNP-050-120/208-3GY	120/208 VAC	3 PHASE, 4 WIRE WYE, W/GROUND
XNP-050-220/380-3GY	220/380 VAC	3 PHASE, 4 WIRE WYE, W/GROUND
XNP-050-277/480-3GY	277/480 VAC	3 PHASE, 4 WIRE WYE, W/GROUND
XNP-050-120/240-3GH	120/240 VAC B PHASE IS 208V	3 PHASE, HIGH-LEG DELTA, W/GROUND
XNP-050-240-3DG	240VAC	3 PHASE, 3 WIRE DELTA, W/GROUND
XNP-050-380-3DG	380 VAC	3 PHASE, 3 WIRE DELTA, W/GROUND
XNP-050-480-3DG	480 VAC	3 PHASE, 3 WIRE DELTA, W/GROUND

* Optional Feature Codes -F EMI Filter -R Remote Alarm

XNP50: 22.05.22



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TECHNICAL INFORMATION

▶ SURGE VOLTAGE RATING (6 KV / 3000 A COMBINATION WAVEFORM) - UL1449 4TH EDITION

Model No.	System Voltage	MCOV	L-N	L-G	N-G	L-L
XNP-050-120-1G	120 VAC	150	700	700	700	1200
XNP-050-240-1G	240 VAC	320	1000	1000	1000	2000
XNP-050-120/240-2G	120/240 VAC	150	700	700	700	1200
XNP-050-120/208-3GY	120/208 VAC	150	700	700	700	1200
XNP-050-220/380-3GY	220/380 VAC	320	1000	1000	1000	2000
XNP-050-277/480-3GY	277/480 VAC	320	1000	1000	1000	2000
XNP-050-120/240-3GH	120/240 VAC High Leg	150/320	700/1000	700/1000	700	1200
XNP-050-240-3DG	240VAC	320	-	1000	-	2000
XNP-050-380-3DG	380 VAC	625	-	1600	-	3200
XNP-050-480-3DG	480 VAC	625	-	1600	-	3200

▶ EMI /RFI NOISE REJECTION

Filtering Attenuation Frequencies (L-N) with 6" Hook Up Wire

Frequency	Noise Source (in dB)
	50 ft.
1 kHz	-1.26
5 kHz	-11.3
10 kHz	-16.47
50 kHz	-31.18
100 kHz	-35.59
150 kHz	-38.41
200 kHz	-40.91
250 kHz	-41.63
500 kHz	-49.49
1 MHz	-43.24

▶ SINGLE-PULSE SURGE CURRENT CAPACITIES

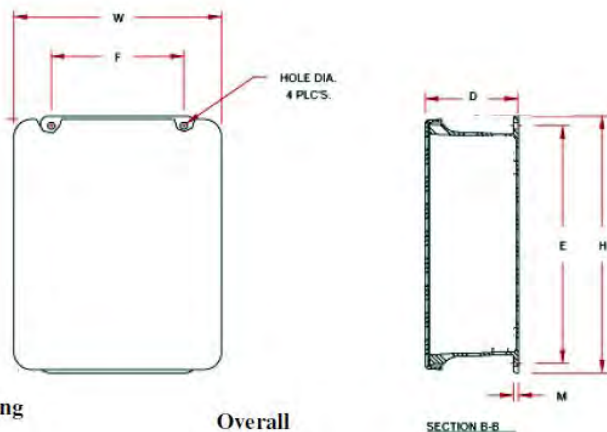
Protection Mode	Single-Pulse Surge Current per Mode
L-N	50,000
L-G	50,000
N-G	50,000
L-L	50,000
Per Phase	100,000

▶ MECHANICAL SPECIFICATIONS

Dimensions	7.39" H x 5.43" W x 4.75" D
Weight	6.5 lbs.
Enclosure Type	NEMA 4X FRP, Non-Removable Cover
Standard Hub Type	3/4" – Rigid or IMC Conduit Optional Stainless Steel Hub Available
Operating Environment	-40C to +60C 5% to 95% humidity

▶ ELECTRICAL SPECIFICATIONS

Connection Method	Parallel
All Protection Modes Protected	L-N, L-G, N-G, L-L
Pre-Wired	30" stranded #10 AWG
Status Indicator	LED's for each phase NO/NC Remote Relay Option



Mounting

E x F
6.75 x 2

Overall

H x W x D
7.50 x 5.43 x 4.75

SHIPPING SPECS: 8 lbs Standard Box 8" x 6" x 6"