

# PowerPro Surge Suppression System



Versatility. Reliability. Value.

## PowerPro 50 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
- Fulfills the single-pulse surge current capacity testing recommendations per NEMA LS-1, 2.2.9 and 3.9
- Includes pre-wired pigtail conductors to streamline installation
- Features internal copper bus conduction path to minimize system impedances, reducing clamping voltage and increasing reliability

## OPTIONS

**Dry Contacts:** Single Form "C" dry contacts for remote alarm monitoring are available as an option. To order a model with dry contacts, add suffix "-FCC" to the standard part number. Example: XNP50-120/208-3GY-FCC

## FITTINGS

**Option A:** Metallic conduit installation kit has a 3/4" x 3" metallic nipple and all associated hardware required to complete the PowerPro installation. Part No. 300-0255-001

**Option B:** Flexible plastic conduit installation kit, including 18" flexible conduit and all associated hardware required to complete the PowerPro installation. Part No. 300-0255-002

## STANDARD PowerPro 50 MODEL NUMBERS

Model No.	System Voltage, Service Configuration
XNP50-120/240-2G	120/240VAC, 1-phase, 3-wire SPLIT-PHASE, w/ground
XNP50-120/208-3GY	120/208VAC, 3 phase, 4-wire WYE, w/ground
XNP50-220/380-3GY	220/380VAC, 3 phase, 4-wire WYE, w/ground
XNP50-277/480-3GY	277/480VAC, 3 phase, 4-wire WYE, w/ground
XNP50-347/600-3GY	347/600VAC, 3 phase, 4-wire WYE, w/ground
XNP50-120/240-3GH	120/240VAC, 3 phase, high-leg DELTA, w/ground (B phase must be 208V)
XNP50-240-3DG	240VAC, 3 phase, 3-wire DELTA, w/ground
XNP50-380-3DG	380VAC, 3 phase, 3-wire DELTA, w/ground
XNP50-480-3DG	480VAC, 3 phase, 3-wire DELTA, w/ground
XNP50-600-3DG	600VAC, 3 phase, 3-wire DELTA, w/ground

Additional voltage configurations available.

## TYPICAL CLAMPING VOLTAGE DATA (6kV / 500A Combination Waveform)

System Voltage	Model No.	Protection Modes			
		L-N	L-G	N-G	L-L
120 / 240	XNP50-120/240-2G	391	391	388	735
120 / 208	XNP50-120/208-3GY	391	391	388	735
220 / 380	XNP50-220/380-3GY	696	724	668	1340
277 / 480	XNP50-277/480-3GY	890	868	820	1665
347 / 600	XNP50-347/600-3GY	1152	1185	1040	2265
120 / 240	XNP50-120/240-3GHD	391x696	391x724	388	735x1340
240	XNP50-240-3DG	-	724	-	735
380	XNP50-380-3DG	-	1185	-	1340
480	XNP50-480-3DG	-	1451	-	1717
600	XNP50-600-3DG	-	1663	-	2276

## MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV)

Voltage	MCOV	Voltage	MCOV
120V	150V	380V	420V
220V	275V	480V	640V*
277V	320V	600V	840V*
347V	420V		

\* For Delta configurations, Phase-to-Phase

## TESTED SINGLE-PULSE SURGE CURRENT CAPACITIES

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

PowerPro suppression filter systems are single-pulse surge current tested at rated currents by an industry-recognized independent laboratory. The single-pulse surge current tests are in compliance with NEMA LS-1 1992, 2.2.9 and 3.9 recommendations.

## APPLICABLE APPROVALS AND STANDARDS

UL 1449, 2nd Edition	ANSI/IEEE C62.41
UL 1283	ANSI/IEEE C62.1
CUL	ANSI/IEEE C62.45
NEMA LS-1	ANSI/IEEE C62.11

## EMI / RFI NOISE REJECTION Filtering Attenuation Frequencies (L-N) w/ 6" Hook-Up Wire

Frequency	Noise Source	
	50 ft.	100 ft.
100kHz	-50 dB	-50 dB
1MHz	-34 dB	-39 dB
10MHz	-34 dB	-40 dB
100MHz	-47 dB	-53 dB

## MECHANICAL SPECIFICATIONS

Dimensions	7.39"H x 5.43"W x 4.75"D
Weight	6.5 lbs.
Enclosure Type	NEMA 4X fiberglass-reinforced polyester (FRP), surface-mount, non-removable cover
Operating Environment	-40°C to +60°C, 5% to 95% noncondensing humidity

## ELECTRICAL SPECIFICATIONS

Connection Method	Parallel
Protection Modes	L-N, L-G, N-G, L-L
Prewired	24" stranded #10 AWG pigtail conductors
Status Indicators	LEDs for each phase illuminate to indicate protection is active



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