

Multi-Phase Panel Protectors

32000 Series for Branch Panels

RATING	CAT. NO.
120/240V AC Single Phase	32120-001
120/208V AC 3-Phase WYE 220V AC 3-Phase Delta	32120-DY3
277/480V AC 3-phase WYE 220/380V AC 3-Phase WYE 240V AC 3-Phase Delta 480V AC 3-Phase Delta	32277-DY3
347/600V AC 3-Phase WYE Delta	32347-DY3
120/240V AC Hi-Leg Split Phase Delta	32412-DS3

Note: 32000 noise rejection is 20dB to 30dB (DHC power line carrier compatible).

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120/208V AC 3-Phase WYE 220V AC 3-Phase Delta	42120-DY3
277/480V AC 3-Phase WYE 220/380V AC 3-Phase WYE 240V AC 3-Phase Delta 480V AC 3-Phase Delta	42277-DY3
347/600V AC 3-Phase Wye Delta	42347-DY3
120/240V AC Hi-Leg Split-Phase Delta	42412-DS3

Note: 42000 noise rejection is 30dB to 40dB.

Performance Specifications: 32000 and 42000 Series

SPECIFICATION	32120-001 42120-001	32120-DY3 42120-DY3	32277-DY3 42277-DY3	32347-DY3 42347-DY3	32412-DS3 42412-DS3
Modes protected	L-N/L-L/N-G	L-N/L-L/N-G	L-N/L-L/N-G	L-N/L-L/N-G	L-L/HIL-G L-N(CT)/HIL-N
Operating frequency range	50, 60Hz	50, 60Hz	50, 60Hz	50, 60Hz	50, 60Hz
Rated L-N voltage	120V	120V	277V	347V	120V
Max. cont. L-N voltage	150V	150V	320V	420V	150V
Max. cont. L-L voltage	270V	270V	540V	660V	250V
Max. transient current (8x20µs single pulse) NM/CM per phase	80kA	80kA	80kA	80kA	80kA
Max. transient energy (8x20µs waveform) per phase	950 Joules	950 Joules	3450 Joules	4100 Joules	2030 Joules
SPD circuit connection	high-energy parallel	high-energy parallel	high-energy parallel	high-energy parallel	high-energy parallel
Connection means	hard wired w/leads	hard wired w/leads	hard wired w/leads	hard wired w/leads	hard wired w/wheels
Fusing	internal	internal	internal	internal	internal
Phases protected	one	three	three	three	three



SPECIFICATIONS & FEATURES

32000 & 42000 Series

- Provide multiple-phase surge protection in commercial & industrial environments
- Compact design permits close installation to panel & provides a short parallel suppression path
- 3-phase units are suitable for WYE & Delta AC systems
- Easily surface-mounted or flush mountable with use of flush collar accessory 42001 FMC
- Real-time diagnostics monitor power & surge suppression status of each phase by means of indicator light & acoustic alarm
- Equipped with normally open/normally closed dry contacts rated 5 Amps 120/240V AC via 3 color-coded AWG leads rated 600V AC for remote monitoring

TESTING & CODE COMPLIANCE

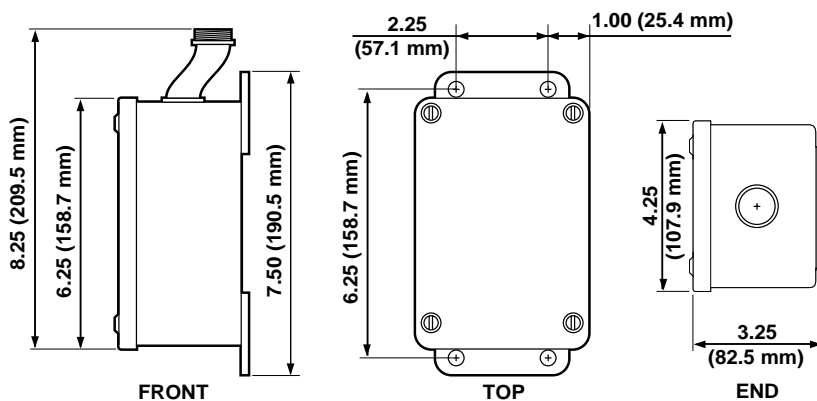
32000 & 42000 Series

- Listed to UL Standard 1449 (Indoor & Outdoor-3R-Rated)
- CSA Certified
- Meets ANSI/IEEE C62.41 Standards for Categories A, B, C
- Backed by a Limited 10-Year Warranty

MATERIAL CHARACTERISTICS

32000 & 42000 Series

Operating Temperature: -10°C to 60°C
Storage Temperature: -20°C to 85°C



Cat. No. 32000 Series

Clamping Performance: 32000 and 42000 Series

SPECIFICATION	32120-001 42120-001	32120-DY3 42120-DY3	32277-DY3 42277-DY3	32347-DY3 42347-DY3	32412-DS3 42412-DS3
Cat. B3 combination wave (8x20µs) peak clamping voltage	L-N: 532V L-L: 832V N-G: 514V	L-N: 532V L-L: 832V N-G: 514V	L-N: 996V L-L: 1570V N-G: 920V	L-N: 1100V L-L: 2200V N-G: 1100V	L-L: 925V HiL-G: 1250V L-N(CT): 520V HiL-N: 725V
UL 1449 ratings @ 500A with 6" lead length	L-N: 500V L-L: 700V N-G: 500V	L-N: 500V L-L: 700V N-G: 500V	L-N: 900V L-L: 1500V N-G: 800V	L-N: 1200V L-L: 2000V N-G: 1000V	L-L: 800V HiL-G: 1000V L-N(CT): 400V HiL-N: 700V

EMI/RFI Noise Rejection: 32000 — Data for Normal Mode and (Common Mode)

SPECIFICATION	32120-001	32120-DY3	32277-DY3	32347-DY3	32412-DS3
Evaluation bandwidth	10KHz–10MHz	10KHz–10MHz	10KHz–10MHz	10KHz–10MHz	10KHz–10MHz
Noise rejection at 50 Ohms	20–30dB (20–30dB)	20–30dB (20–30dB)	20–30dB (20–30dB)	20–30dB (20–30dB)	20–30dB (20–30dB)

Note: 32000 noise rejection is -20dB to -30dB (DHC power line carrier compatible).

EMI/RFI Noise Rejection: 42000 Series — Data for Normal Mode and (Common Mode)

SPECIFICATION	42120-001	42120-DY3	42277-DY3	42347-DY3	42412-DS3
Evaluation bandwidth	10KHz–10MHz	10KHz–10MHz	10KHz–10MHz	10KHz–10MHz	10KHz–10MHz
Noise rejection at 50 Ohms	30–40dB (30–40dB)	30–40dB (30–40dB)	30–40dB (30–40dB)	30–40dB (30–40dB)	30–40dB (30–40dB)



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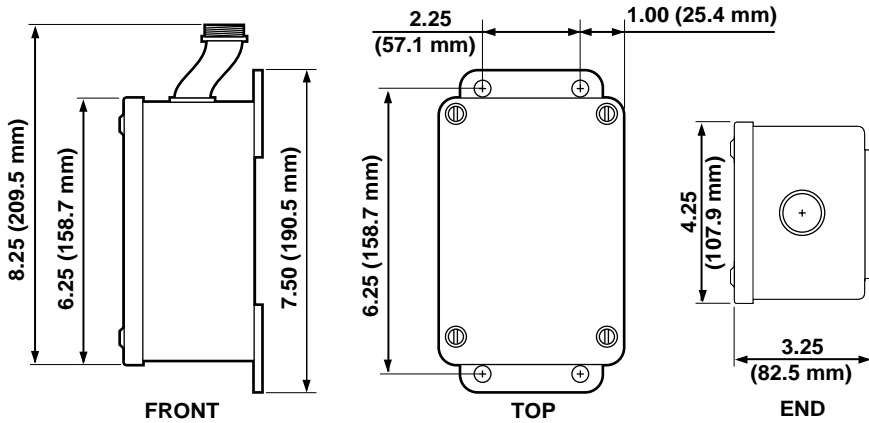
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