

MCG Surge

MODEL: 500 Series, 530P

Single Phase Parallel AC Surge Protector

The 530P is a versatile protector that is optimized for single phase applications up to 240VAC. Low impedance construction results in superior protection due to low let-through levels, without sacrificing reliability. At the heart of the protector is our new, all mode, single phase protection module.

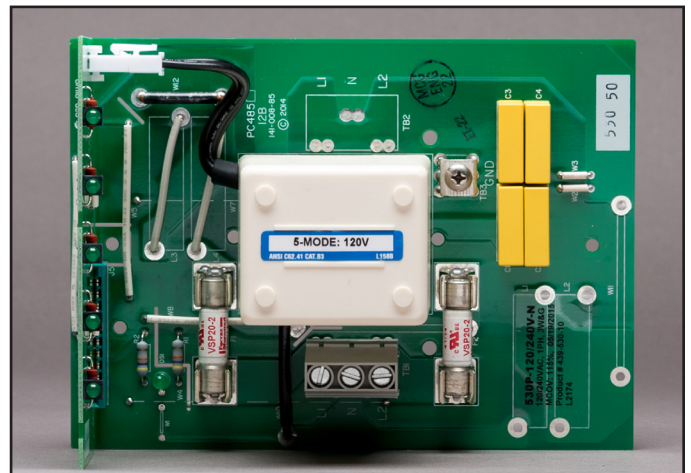
Protection components are thermally protected to ensure safety and are continuously monitored by dedicated status indicators. The 530P comes in an indoor/outdoor rated, corrosion resistant compact enclosure. It can be wired to a service panel or can reside near or within the protected equipment as a dedicated protector.

The 530P is offered with or without an enclosure for retrofit and OEM applications. Plug-in status board allows for field monitoring upgrades without having to send the whole unit back to the factory.

Standout Feature: Install at or within equipment

Features:

- Modular unit for easy field repair
- Low impedance construction
- All protection elements and fuses monitored
- Thermally protected varistors
- All modes protected
- NEMA 4X indoor/outdoor enclosure
- Padlock eyes on enclosure
- EMI/RFI filtering; optional enclosure-free
- Optional relay (surge protected)
- Optional beeper with mute switch
- Small form factor (8.33"L x 7.01"W x 4.22"D)
- 20-Year No Nonsense Warranty, lifetime warranty on fuses and module



Ipeak = 60kA to 100kA total

UL 1449 5th Edition Listed

20-Year Warranty

Made in the
USA



Specifications: 500 Series

- ANSI / IEEE C62.41-2002
- IEC 61643-1-1998
- UL 1449, 5th Edition

<p>SPD Type: Type 2 (with enclosure), Type 4 Component Assembly (without enclosure) In: 5kA Maximum Continuous Operating VAC (MCOV): 115% Rated Line Voltage Varistor MCOV: 125% Rated Line Voltage Minimum SCCR: 50kAIC Surge Current/Mode (8/20µs): -120/240V (split phase models) 20kA per mode (L1-N, L2-N, L1-G, L2-G, N-G) -120V/-220V/-240V models, 40kA L1-N, 40kA L1-G, 20kA N-G -240V-LLG models, 20kA L1-G, 20kA L2-G, 20kA L1-L2 Response Time: <1 ns Status Indicators: 4/5 Blue status LEDs depending on model. 1 Green LED on motherboard Optional Status Indicators: Standard LED indicators plus beeper with mute and SPST relay contacts 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 4X nonmetallic. Indoor/Outdoor, UL94-5VA+UV(f1) Weight: 2.4 lbs./1.1kg (with enclosure) 1.0 lbs./0.5kg (without enclosure) Power Connections: 20 to 6 AWG (0.52 - 13.3mm²) Cage Clamp Terminal Blocks Ground Connection: Screw Terminal (Ring Terminal Lug included) 12-10AWG (3.31-5.26mm²) Relay (where equipped): 28 to 16 AWG (0.081-1.31mm²) Cage Clamp Pluggable Terminal Block Conduit Connector Size: 3/4" Trade (2 holes - 1.093" (27.76mm)) Note: Hole Plugs included Dimensions (overall), with enclosure: 8.33"L x 7.01"W x 4.22"D (212mm L x 178mm W x 107mm D) Mounting, with enclosure: 8.875"L x 5.00"W (4 slots-0.200"W) (225mm L x 127mm W (4 slots-5.1mm W) Dimensions (overall) without enclosure including 1" standoffs: 7.4"L x 5.4"W x 4.5"D (188mm L x 137mm W x 114mm D) Mounting, without enclosure: See 500 series installation instructions document 299-700-33</p>
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MODEL 500 Series	SERVICE	VPR L-N	VPR L-G	VPR N-G	VPR L-L
-120/240V	120/240VAC, 1Φ, 3W+G	800	800	700	1200
-120V	120VAC, 1Φ, 2W+G	800	800	700	N/A
-220V	220VAC, 1Φ, 2W+G	1500	1500	1500	N/A
-240V	240VAC, 1Φ, 2W+G	1200	1200	1200	N/A
-240V-LLG	240VAC, 1Φ, 2W+G*	N/A	1200	N/A	1100

*Line 1, Line 2, and Ground (no neutral)

Basic Model Names and Options:

- 530P-120/240V
- 530P-120V
- 530P-220V
- 530P-240V
- 530P-240V-LLG

Adding "-N" to basic model name deletes the enclosure - protection assembly only (OEM style)
 Adding "-UFP" to basic model name adds protection status relay contacts and beeper with mute
 UFP = "Upgraded Front Panel"

Ordering Example: 530P-120/240V-UFP

This model is a parallel-connected 500 series protector (with enclosure) for use on a 120/240VAC, 1Φ, 3W+G service with the optional remote relay contacts and beeper option.

UL File Number: E322161

UL: 530P MODELS WITH ENCLOSURE:

SPD Type 2, USL/CNL, UL1449, 5th Edition/CSA C22.2 No. 269.2

530P MODELS WITHOUT ENCLOSURE:

SPD Type 4CA, USR, UL1449, 5th Edition / SPD Type 5, CNR, CSA C22.2 No 269.5

ARRA Certification: Complies with ARRA 1605 requirements