COOPER Bussmann

SURGE PROTECTION MADE SIMPLE™ FOR LIGHT COMMERCIAL & RESIDENTIAL APPLICATIONS

SURGEPOD™ PRO SPD FOR UL 1449 3rd Edition Listed Loadside and Lineside Protection

UL LISTED RoHS

Description

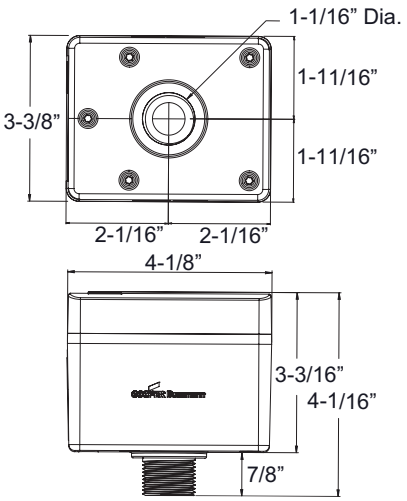
The Cooper Bussmann SurgePOD™ PRO is a Type 1 UL Listed 1449 3rd Edition surge protective device suitable for installation on both the loadside or lineside of the service entrance overcurrent protective device.

Available in popular voltage and system specific versions to match common residential and light commercial electrical system and equipment requirements. The SurgePOD PRO delivers superior surge protection using MOV thermal disconnect technology that eliminates the need for additional overcurrent protection.

Parallel connection to the electrical system permits the SurgePOD PRO SPD to be installed on **any** ampacity panel.

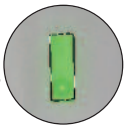
- Type 1 UL 1449 3rd Edition Listed SPDs are easily selected and installed on the loadside or lineside of the service entrance overcurrent protective device
- Voltage specific models precisely match and protect electrical systems and equipment better than "one-size-fits-all" SPDs
- Thermal disconnect technology eliminates the need for additional fusing
- Compact UV resistant NEMA 4X enclosure for indoor or outdoor applications
- *easy*ID™ LED status indicator provides surge protection status at a glance

Dimensions - in



2 YEAR WARRANTY

*easy*ID™ LED Status Indicator



SPP40SP1120SN **SPP40SP3240DLG** **SPP40SP3208WYG**
SPP40SP2240PN **SPP40SP3480DLG** **SPP40SP3480WYG**

NEMA 4X Rated Pro Type 1 UL Listed SPD

Type 1 SPD Part Number System

SPP 40S PX XXX XXX

SPP = Product Series
Surge Protection PRO

Surge Rating
40S = 40kA max discharge current

No of Wires/Poles
P1 = 1 P2 = 2 P3 = 3 P4 = 4

Rated System Voltage
120, 208, 240, 480Vac

System
SN = Single-Phase 2 Wire, 2 Connection Points
PN = Split-Phase, 3 Wire, 3 Connection Points
DLG = Three-Phase Delta 3 Wire + G, 4 Connection Points
WYG = Three-Phase Wye 3 Wire, 4 Connection Points

SurgePOD™ PRO Technical Information

Catalog Number	Nominal System Voltage	Max. Continuous Operating AC Voltage (MCOV) (V_C)	System Type	Connection Points
SPP40SP1120SN	120V	150V	Single-Phase 2 Wire	2
SPP40SP2240PN	120/240V	150V	Split Phase 3 Wire	3
SPP40SP3240DLG	240V	320V	Three-Phase Delta 3 Wire + G	4
SPP40SP3480DLG	480V	550V	Three-Phase Delta 3 Wire + G	4
SPP40SP3208WYG	208V	150V	Three-Phase Wye 3 Wire + G	4
SPP40SP3480WYG	480V	320V	Three-Phase Wye 3 Wire + G	4

Specifications (for all SurgePOD PRO units)	Values
Short Circuit Current Rating (SCCR)	200kA
Nominal Discharge Current (8x20µs) I_n	10kA
Max. Discharge Current (8x20µs) I_{max}	40kA
Response Time (ns) t_A	<25ns
Frequency	50/60Hz
Operating State/Fault Indication	Bi-Color LED - Green (good) / Red (replace)
Conductor Length / Guage	18 inches, 10 AWG Stranded Tinned Copper
Mounting	Chase Nipple / Bracket*
Enclosure / Flammability Ratings	NEMA 4X - UL 94-5VA
Degree of Protection (Installed State)	IP20 (finger-safe)
SPD Install Location	Indoor/Outdoor
Circuit Location	Lineside or Loadside of service entrance overcurrent protective device
Standard	UL 1449 3rd Edition Type 1 Listed SPD
Agency Information	cULus, RoHS Compliant
Product Warranty	2 Years**
Operating Temperature	-40˚C to +65˚C
Maximum Operating Altitude	12000FT

* Customer-supplied bracket.

** See Cooper Bussmann SPD Limited Warranty Statement (3A1502) for details at www.cooperbussmann.com/Surge.

Voltage Protection Ratings (VPRs)

Catalog Number	Nominal System Voltage	MCOV (V_C)	Voltage Protection Ratings (VPRs)		
			L-N	L-L	L-G
SPP40SP1120SN	120V	150V	700	—	—
SPP40SP2240PN	120V/240V	150V	700	1200	—
SPP40SP3240DLG	240V	320V	—	2500	1200
SPP40SP3480DLG	480V	550V	—	3000	1800
SPP40SP3208WYG	208V	150V	—	1200	700
SPP40SP3480WYG	480V	320V	—	2500	1200

*easy*ID™ LED Status Indicator

The *easy*ID™ LED status indicator will illuminate when the unit is properly installed and the system or equipment being protected is energized. The following LED color/status indicates:

GREEN LED = Good

The circuit is energized and *protected*.

RED LED = Replace

The circuit is *energized* **and** *unprotected*.

The unit **needs** replacing.

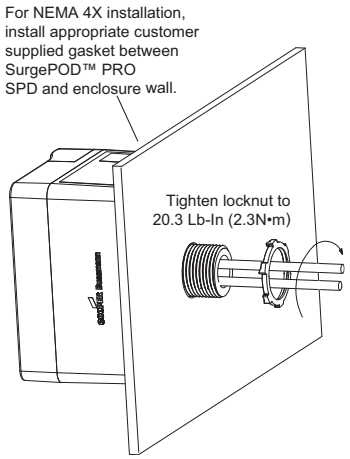
LED is Out / Unlit:

- The circuit is most likely deenergized
- The unit's leads are disconnected
- The unit is damaged

Authorized personnel should follow all prescribed lockout/tagout and safety procedures in troubleshooting the cause for the above conditions. Opening SurgePOD PRO enclosure will void UL listing and warranty.

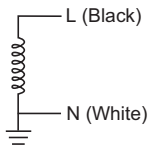
Mounting

SurgePOD PRO is a panel mount device. It may also be mounted using a customer supplied bracket or directly onto a female threaded conduit fitting.



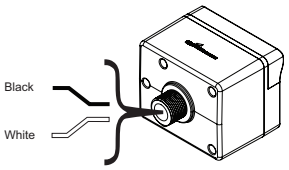
Wiring Connections

Single-Phase



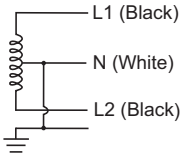
120V (L-N)
2 Wire

Must be installed within 10 feet (3m) of a bonded neutral-ground connection per IEEE C62.41-1991



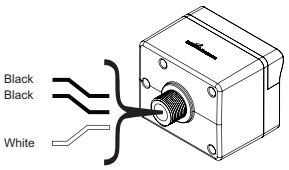
SPP40SP1120SN

Two-Pole with Neutral



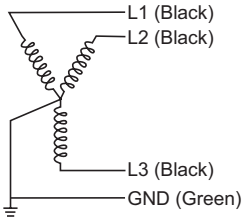
120V (L-N) / 240V (L1-L2),
Single Phase (Split) Center Tap

For installations at or less than 10 feet (3m) from the transformer.

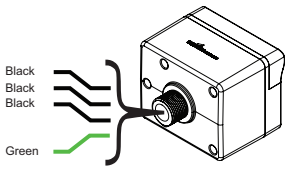


SPP40SP2240PN,

Wye + Ground

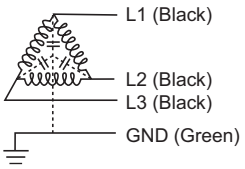


208, 480V (L-L)
3 Wire Wye + Ground

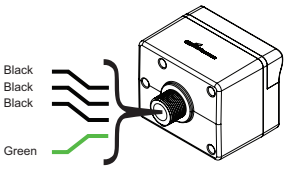


SPP40SP3208WYG,
SPP40SP3480WYG

Delta + Ground



240, 480V (L-L)
3 Wire Delta + Ground



SPP40SP3240DLG,
SPP40SP3480DLG

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