

# Surge-Trap® Pluggable SPD Single Pole - Data Sheet



Fail-Safe

Cost  
Effective

TPMOV®  
Technology



No Fuse Required

**TPMOV®**  
TECHNOLOGY  
By Ferraz Shawmut

## Application

For **Single Pole Applications & Systems**  
**STP1201PGM, STP2301GM, STP2771PGM,**  
**STP3471PGM**

The Surge-Trap Pluggable SPD provides advanced overvoltage protection by utilizing Ferraz Shawmut's patented TPMOV design, which does not require fuses, a fuse holder or additional wiring in meeting the UL 1449 Third Edition standards thus providing **substantial cost savings** and reduced installation times.

The Surge-Trap Pluggable SPD base is designed to be mounted on 35mm DIN-rail while plugs are easily replaceable upon failure without touching the base or the hassle of rewiring. It also features a visual indicator, easy installation, **fail-safe design**, mechanical coding and remote monitoring.

## System Information

Surge-Trap Pluggable Systems (includes base and plugs)	STP1201PGM	STP2301PGM	STP2771PGM	STP3471PGM
Nominal Voltage (Vac)	120	240	277	347
MCOV (Vc) L-G	180	275	320	420
Phase	Single Phase	Single Phase	Single Phase	Single Phase
Number of Poles	1	1	1	1
Number of Wires	2	2	2	2
Nominal Discharge Current (In, kA)	20	20	20	10
Max. Discharge Current (Imax, 8/20, kA)	50	50	50	50
SCCR (kA)	200	200	200	200
Freq (Hz)	50/60	50/60	50/60	50/60
Voltage Protection Rating (L-N)	600	900	1000	1500
Replacement Plug Part No	SP180U	SP275U	SP320U	SP420U
Application	UL Type 2			
Standard	UL 1449 3 <sup>rd</sup> Edition			

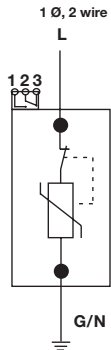
More on Reverse ➡

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## Wiring Diagram

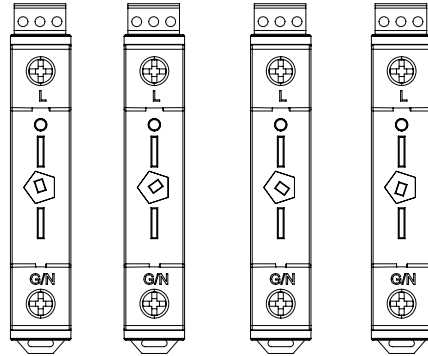


### Wire Installation

#6 – #14 AWG, 60/750C  
Copper wire shall be used.  
Maximum torque to be applied to terminal screws is 2.0 newton-meter (14.75 in-lb). Strip back wire insulation 6mm (1/4").

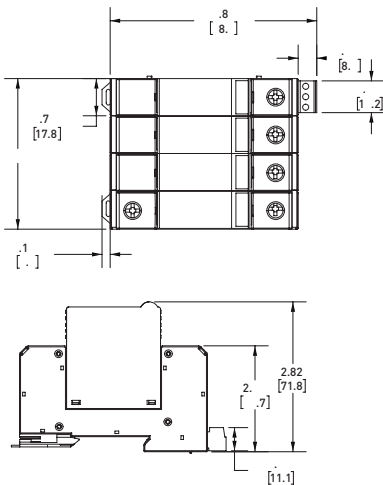
STP1201PGM / STP2301GM / STP2771PGM / STP3471PGM

## Base & Voltage Key Orientation

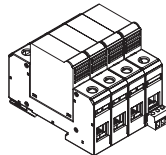


STP1201PGM / STP2301GM / STP2771PGM / STP3471PGM

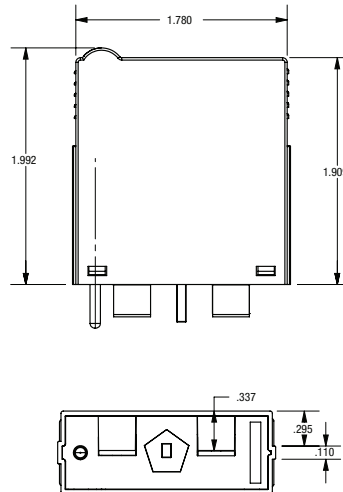
## Base Measurements



Poles	A
1 Pole	18.03 mm
2 Pole	36.06 mm
3 Pole	54.10 mm
4 Pole	72.13 mm



## Plug Measurements



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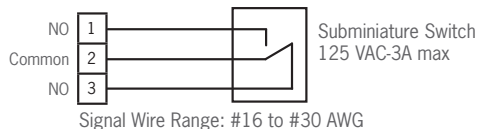
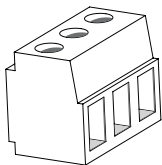
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## Microswitch Details



- >Terminal Torque 2.2 lb-in
- >Cont. between Comm + NO = Product Offline, Not Protected
- >Cont. between Comm + NC = Product Offline, Protected

## Auxiliary Micro-Switch Installation

Remote signaling is available on all Surge-Trap products that specify a remote indicator. #16 – #30 AWG signal wire may be used. The maximum continuous current rating for the remote indicator is 3A.



DS-STP-1Pole | 5000 | 2.10 | Growll

**Ferraz Shawmut**