PSV Series

Type 1CA (Din-rail Mounting SPDs)

High capacity Type1,2 SPDs for overvoltage protection on switchgear and power distribution panels

Introduction

The PSV Series of surge protective devices are tested by Underwriters Laboratory and Listed to UL 1449, 4th Edition to help ensure equipment is protected with highly reliable surge protection technology. Delta and Wye system units are available in three configurations to increase application flexibility. The PSV Series is for installation external to an electrical enclosure or panelboard. Application of PSV Series units throughout a facility will help ensure that equipment is protected.

Applications

PSV Series are available in all common voltage and system configurations, and in a variety of peak surge current capacity ratings from 50 through 200 kA per phase. Several feature package options (filtering, audible alarm and Form C contacts) extend application flexibility along with a range of configurable options suitable for most commercial and light industrial applications covering service entrances, distribution panelboards and point-ofuse applications.

Features

- UL recognized Type 1ca SPD, passed short circuit current rating (SCCR) 200kA without external fuse or CB.
- High reliability due to global patented thermally protected MOV with special arc-extinguish device (TPAE technology).
- Large surge energy capability up to 50KA per mode.
- DIN-rail mounting configuration.
- Pluggable module for easy replacement
- Degradation failure indication.
- Meet both standards of UL1449-4th and IEC61643-11:2012

● Specifications

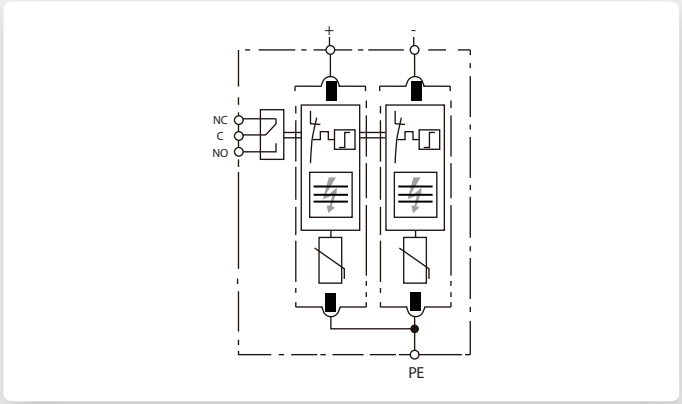
- Cross-section of connection wire : Single-strand 35mm²; Multi-strand 25mm²
- Mounting : 35mm DIN-rail in accordance with EN 50022/DIN46277-3
- Enclosure material : thermoplastic; extinguishing degree UL94 V-0
- Degree of protection : IP20
- Thermal disconnector : Internal green – normal ; red - failure
- Switching capability Un/In : AC : 250V/0.5A DC : 250V/0.1A 125V/0.2A 75V/0.5A
- Max. Size of Remote connecting wire : Max. 1.5mm²(or # 16AWG)

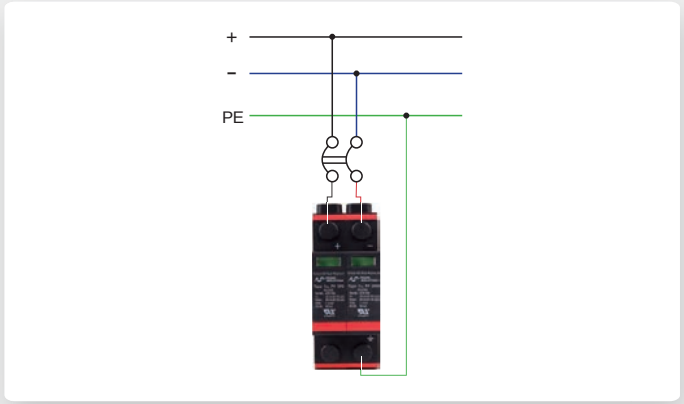
Model No.		PSV48-V-C-S	PSV500-V-C-S	PSV600-V-C-S
MCOV	VDC	48	500	600
	VAC	85	560	670
I_n (kA) -8/20 μs- / I_{max} (kA) -8/20 μs-		20 / 50		
VPR(Vpk) (kV)	+/- - PE	0.4	1.5	1.5
	+ - -	0.8	3.0	3.0
SCCR(kA)		30	100	50

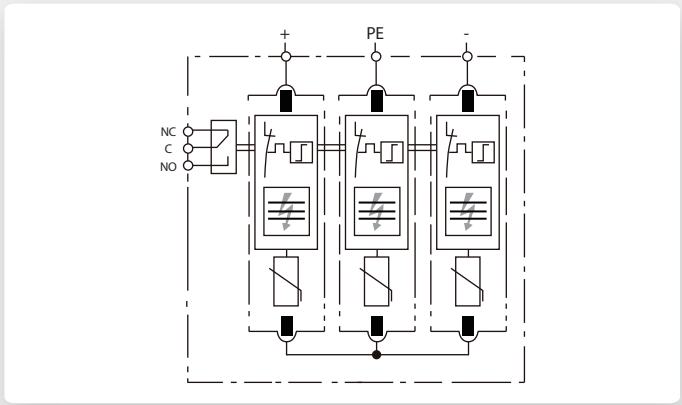
Model No.		PSV600-V-CD-S	PSV800-V-CD-S	PSV1000-V-CD-S	PSV1200-V-CD-S	PSV1500-V-CD-S
MCOV	VDC	600	800	1000	1200	1500
	VAC	700	920	1120	1340	1500
I_n (kA) -8/20 μs- / I_{max} (kA) -8/20 μs-		20 / 50				
VPR(Vpk) (kV)	+/- - PE	0.9	1.2	1.5	1.5	1.8
	+ - -	1.8	2.5	2.5	3.0	4.0
SCCR(kA)		50				

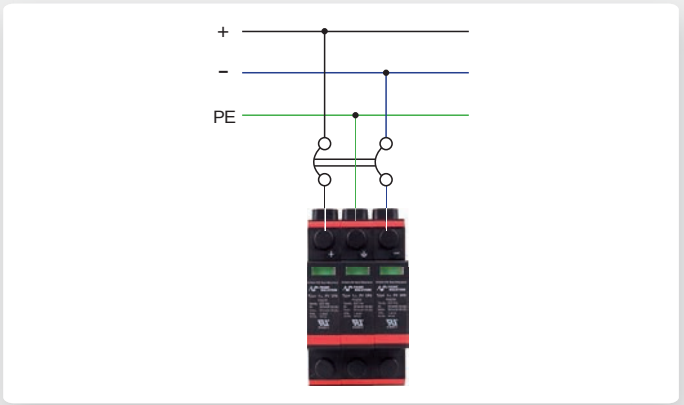
Model No.		PSV1200-V-CD2-S	PSV1500-V-CD2-S
MCOV	VDC	1200	1500
	VAC	1340	1500
I_n (kA) -8/20 μs- / I_{max} (kA) -8/20 μs-		20 / 50	
VPR (Vpk) (kv)	+/- - PE	1.5	1.8
	+ - -	3.0	4.0
SCCR(kA)		50	

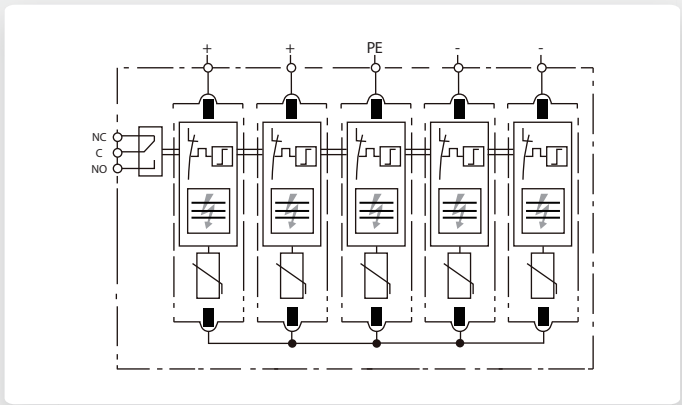
Basic Circuit Diagram

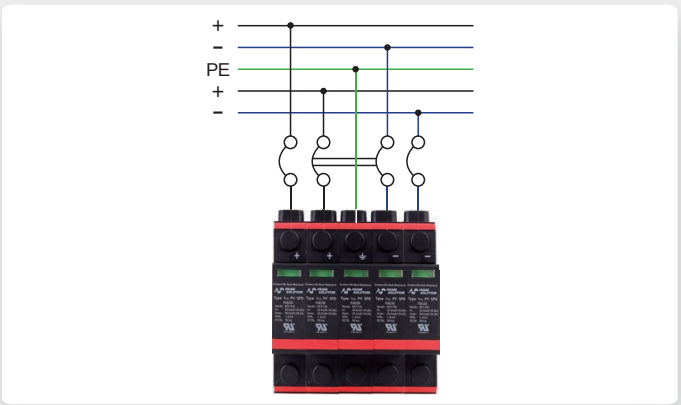




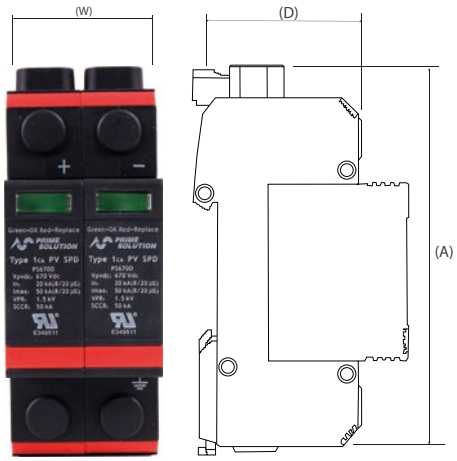




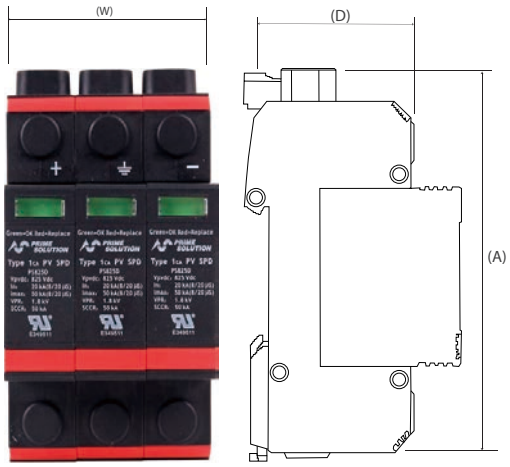




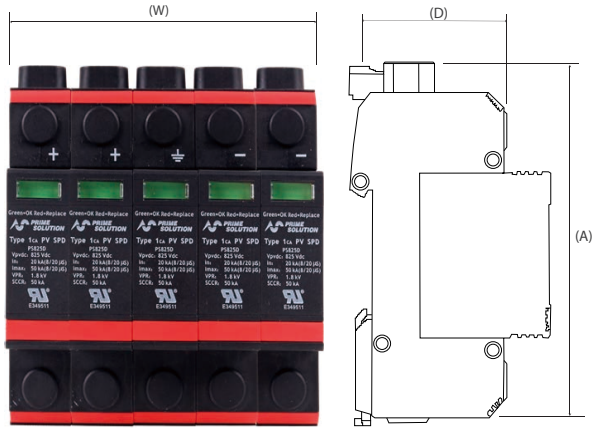
● Dimension



	Size (inch/mm)
W	1.42 / 36
D	2.55 / 65
A	3.54 / 90



	Size (inch/mm)
W	2.13 / 54
D	2.55 / 65
A	3.54 / 90



	Size (inch/mm)
W	3.54 / 90
D	2.55 / 65
A	3.54 / 90

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