


## VAL-SQ SP 50-120/240HLD

Order No.: 2800494

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2800494>

Surge protection device for 120/240 V AC High-Leg Delta configurations. Uses a compact, NEMA rated enclosure that connects easily to an existing enclosure. Hybrid Sine Wave Tracking provides 80 kA surge protection.

Commercial data	
GTIN (EAN)	 4 046356 565035
Note	Made-to-order
sales group	J102
Pack	1 pcs.
Customs tariff	85363090
Catalog page information	Page 77 (TT-2011)

### Product notes

WEEE/RoHS-compliant since:  
02/21/2010



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### Product description

Surge protection device for 120/240 V AC High-Leg Delta configurations with 80 kA protection

## Technical data

### Standards

Degree of protection	NEMA 4X
Mounting type	3/4 inch NPT male
Design	Parallel hybrid
Ambient temperature (operation)	-40 °C ... 71 °C
Altitude	3658 m
Message: Surge protection fault	Phase LEDs
	Audible alarm
	Remote indicator contact
Direction of action	3L-N & N-GND
Width	250.00 mm
Height	122.00 mm

### Protective circuit

Arrester rated voltage $U_c$	150 V
Response time	< 1 ns

### Connection, protective circuit

Connection method	#10 AWG/5.26 mm <sup>2</sup> wires (24 in./61 cm long)
	4-wire + Gnd
Conductor cross section AWG/kcmil min.	10
Conductor cross section AWG/kcmil max	10

### Remote indicator contact

Connection method	#24 AWG/0.205 mm <sup>2</sup> wires (24 in./61 cm long)
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### NEMA / UL data

UL type	type 2
Maximum Continuous Operating Voltage (MCOV without reference direction)	150 V
Voltage protection rating (VPR L-L)	1500 V
Voltage protection rating (VPR L-N)	1000 V
Voltage protection rating (VPR L-PE)	1200 V
Voltage protection rating (VPR N-PE)	700 V
Nominal discharge current $I_n$ (without reference direction)	20 kA

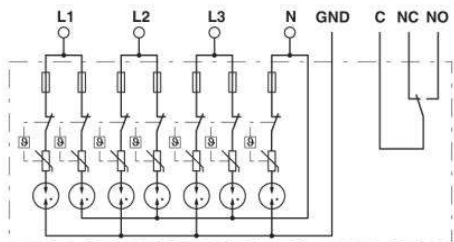
Maximum Surge Current per Phase	50 kA
Short-circuit current rating (SCCR)	200 kA
EMI/RFI filtering	-30 dB @ 100 kHz

**Environmental conditions**

Standards/regulations	UL 1449 3 <sup>rd</sup> edition, Sept. 2009
	UL 1283
	IEEE C62.41
	IEEE C62.45

**Diagrams/Drawings**

Circuit diagram



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