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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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## 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



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

### 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

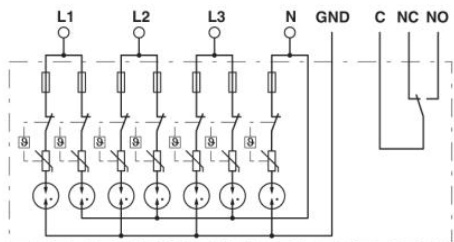
Maximum Surge Current per Phase	50 kA
Short-circuit current rating (SCCR)	200 kA
EMI/RFI filtering	-30 dB @ 100 kHz

**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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