


VAL-SQ SP 100-120/240S

Order No.: 2800463

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2800463>

Surge protection device for 120/240 V AC split/single phase configurations. Uses a compact, NEMA rated enclosure that connects easily to an existing enclosure. Hybrid Sine Wave Tracking provides 100 kA surge protection.

Commercial data	
GTIN (EAN)	 4 046356 564977
Note	Made-to-order
sales group	J102
Pack	1 pcs.
Customs tariff	85363090
Catalog page information	Page 76 (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 single/split phase configurations with 100 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 ² 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 ² 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)	900 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

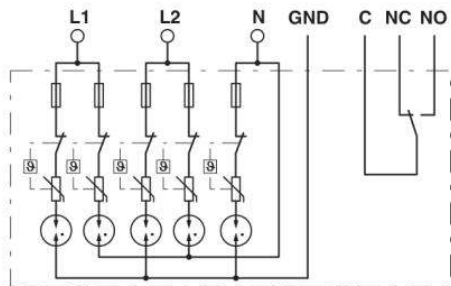
Maximum Surge Current per Phase	100 kA
Short-circuit current rating (SCCR)	200 kA
EMI/RFI filtering	-30 dB @ 100 kHz

Environmental conditions

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

Diagrams/Drawings

Circuit diagram



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