

## VAL-SQ SE 180-277/480Y /TS

Order No.: 2800378



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2800378>

Surge protection device for 277/480 V AC Wye configurations typically used as service entry protection. Protects across all phases and directions. NEMA rated enclosure provides a monitor with surge counter, status LEDs and audible alarm with remote monitor capability. Hybrid Sine Wave Tracking provides 180 kA surge protection.

### Commercial data

GTIN (EAN)	 4 046356 564694
Note	Made-to-order
sales group	J101
Pack	1 pcs.
Customs tariff	85363090
Catalog page information	Page 75 (TT-2011)

### Product notes

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



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### Product description

Surge protection device for service entrance protection of 277/480 V AC, 220/380 V AC, 230/400 V AC and 240/415 V AC Wye systems with 180 kA protection. Protects across all phases in all directions.

## Technical data

### Standards

Housing material	Metal
Degree of protection	NEMA 3R/12
Mounting type	Wall mounting
Design	Parallel MOV
Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-20 °C ... 65 °C
Permissible humidity (operation)	0 % ... 95 %
Altitude	3658 m
Message: Surge protection fault	Phase LEDs
	Audible alarm
	Remote indicator contact
Direction of action	3L-N & 3L-L & N-GND
Width	411.00 mm
Height	550.00 mm

### Protective circuit

Arrester rated voltage $U_c$	320 V
Response time	< 1 ns

### Connection, protective circuit

Connection method	Screw terminal blocks
	4-wire + Gnd
Tightening torque	4 Nm
Conductor cross section AWG/kcmil min.	10
Conductor cross section AWG/kcmil max	2

### Remote indicator contact

Connection method	Screw connection
Conductor cross section AWG/kcmil min.	22
Conductor cross section AWG/kcmil max	14

### NEMA / UL data

UL type	type 2
Maximum Continuous Operating Voltage (MCOV without reference direction)	320 V

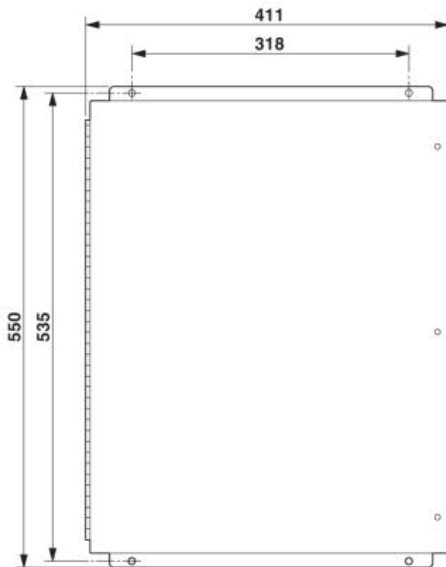
Voltage protection rating (VPR L-L)	1800 V
Voltage protection rating (VPR L-N)	1200 V
Voltage protection rating (VPR L-PE)	1200 V
Voltage protection rating (VPR N-PE)	1000 V
Nominal discharge current $I_n$ (without reference direction)	20 kA
Maximum Surge Current per Phase	180 kA
Short-circuit current 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

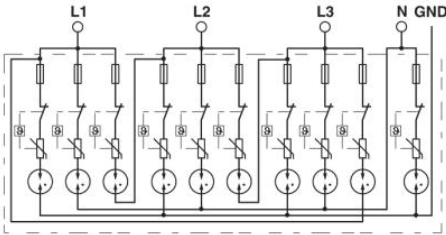
**Diagrams/Drawings**

Dimensioned drawing



Circuit diagram

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**Address**

PHOENIX CONTACT Inc., USA  
586 Fulling Mill Road  
Middletown, PA 17057, USA  
Phone (800) 888-7388  
Fax (717) 944-1625  
<http://www.phoenixcon.com>



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