

**VAL-SQ SE 200-277/480Y /D**

Order No.: 2800400

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2800400>

Surge protection device for 277/480 V AC Wye configurations typically used as service entry protection. NEMA rated enclosure provides a monitor with surge counter, status LEDs and audible alarm with remote monitor capability. Hybrid Sine Wave Tracking provides 200 kA surge protection.

**Commercial data**

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 046356 564878 |
| 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 200 kA protection

## 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 & N-GND             |
| Width                                   | 418.00 mm                |
| Height                                  | 562.00 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. | 12                    |
| 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  |

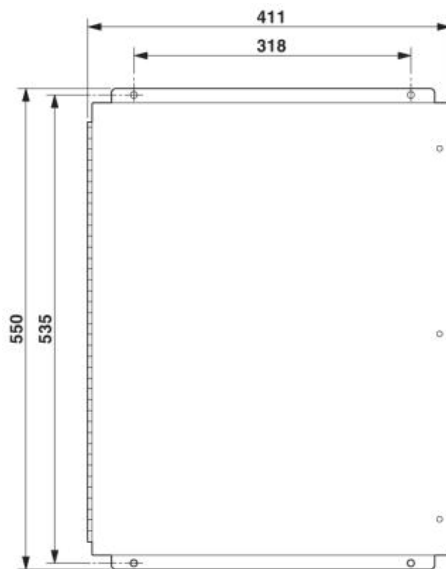
|                                                               |                  |
|---------------------------------------------------------------|------------------|
| Voltage protection rating (VPR L-L)                           | 2000 V           |
| Voltage protection rating (VPR L-N)                           | 1200 V           |
| Voltage protection rating (VPR L-PE)                          | 1200 V           |
| Voltage protection rating (VPR N-PE)                          | 1200 V           |
| Nominal discharge current $I_n$ (without reference direction) | 20 kA            |
| Maximum Surge Current per Phase                               | 200 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                                 |

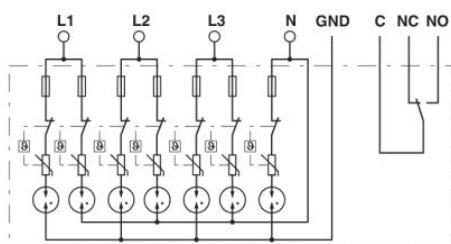
#### Diagrams/Drawings

##### Dimensioned drawing



#### Circuit diagram

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