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**VAL-SQ SE 400-120/208Y /D**

Order No.: 2800385

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2800385>

Surge protection device for 120/208 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 400 kA surge protection.

**Commercial data**

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 046356 564724 |
| Note                     | Made-to-order                                                                                          |
| sales group              | J101                                                                                                   |
| Pack                     | 1 pcs.                                                                                                 |
| Customs tariff           | 85363090                                                                                               |
| Catalog page information | Page 74 (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 service entrance protection of 120/208 V AC and 127/220 V AC Wye systems with 400 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                                   | 519.00 mm                |
| Height                                  | 664.00 mm                |

### Protective circuit

|                              |        |
|------------------------------|--------|
| Arrester rated voltage $U_c$ | 150 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) | 150 V  |

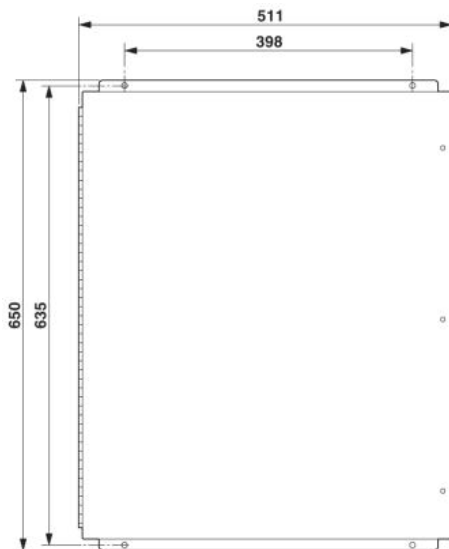
|                                                               |                  |
|---------------------------------------------------------------|------------------|
| Voltage protection rating (VPR L-L)                           | 1200 V           |
| Voltage protection rating (VPR L-N)                           | 700 V            |
| Voltage protection rating (VPR L-PE)                          | 700 V            |
| Voltage protection rating (VPR L-PEN)                         | 700 V            |
| Nominal discharge current $I_n$ (without reference direction) | 20 kA            |
| Maximum Surge Current per Phase                               | 400 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                                 |

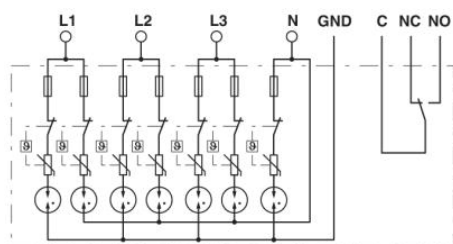
#### Diagrams/Drawings

##### Dimensioned drawing



#### Circuit diagram

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