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**Extract from the online catalog**

## VAL-SQ SI 100-120/240S

Order No.: 2800325



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2800325>

100 kA surge protection device for 120/240 V AC single/split phase configurations with separate Gnd and N conductors. Uses a compact, NEMA 4X-rated enclosure that connects easily to an existing enclosure.

### Commercial data

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 046356 564939 |
| Note                     | Made-to-order                                                                                          |
| sales group              | J103                                                                                                   |
| Pack                     | 1 pcs.                                                                                                 |
| Customs tariff           | 85363090                                                                                               |
| Catalog page information | Page 79 (TT-2011)                                                                                      |

### Product notes

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



<http://www.download.phoenixcontact.com>  
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### Product description

100 kA Type 1 surge protective device for single and split phase systems with separate Gnd and N

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**Technical data**
**Standards**

|                                 |                   |
|---------------------------------|-------------------|
| Housing material                | Non-metallic      |
| Degree of protection            | NEMA 4X           |
| Mounting type                   | 1/2 inch NPT male |
| Design                          | MOV               |
| Ambient temperature (operation) | -40 °C ... 70 °C  |
| Altitude                        | 3658 m            |
| Message: Surge protection fault | Optical           |
| Width                           | 76.00 mm          |
| Height                          | 91.00 mm          |

**Protective circuit**

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

**Connection, protective circuit**

|                   |                                |
|-------------------|--------------------------------|
| Connection method | #12 AWG wires / 24 in. (61 cm) |
|-------------------|--------------------------------|

**NEMA / UL data**

|                                                               |        |
|---------------------------------------------------------------|--------|
| UL type                                                       | type 1 |
| Nominal discharge current $I_n$ (without reference direction) | 10 kA  |
| Maximum Surge Current per Phase                               | 100 kA |
| Short-circuit current rating (SCCR)                           | 25 kA  |

**Environmental conditions**

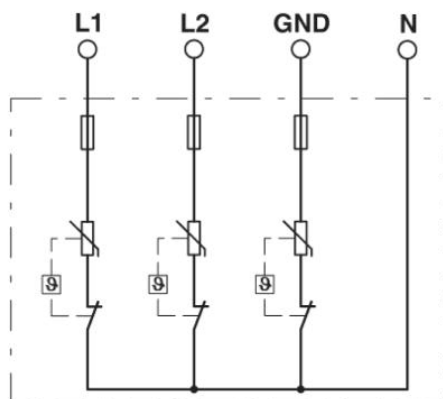
|                       |                                             |
|-----------------------|---------------------------------------------|
| Standards/regulations | UL 1449 3 <sup>rd</sup> edition, Sept. 2009 |
|                       | UL 1283                                     |
|                       | IEEE C62.41                                 |
|                       | IEEE C62.45                                 |

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## Diagrams/Drawings

### Circuit diagram



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