

## SD1-100-275

**MULTIMOV Surge Diverters**

Use SD - MULTIMOV high energy surge diverters for point of entry protection at main switchboards. Models are available for all wiring systems worldwide.

**All Mode Protection**

Models containing N-E protection (-N versions) feature all mode protection. Protection is provided for all combinations of lines (L-L, L-N, L-E, N-E) ensuring the maximum level of protection is achieved at all times.

**Redundant Segments**

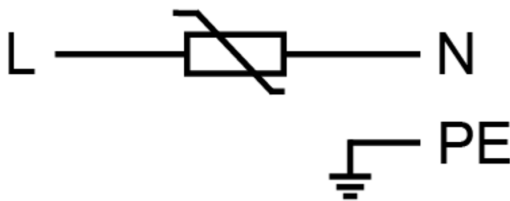
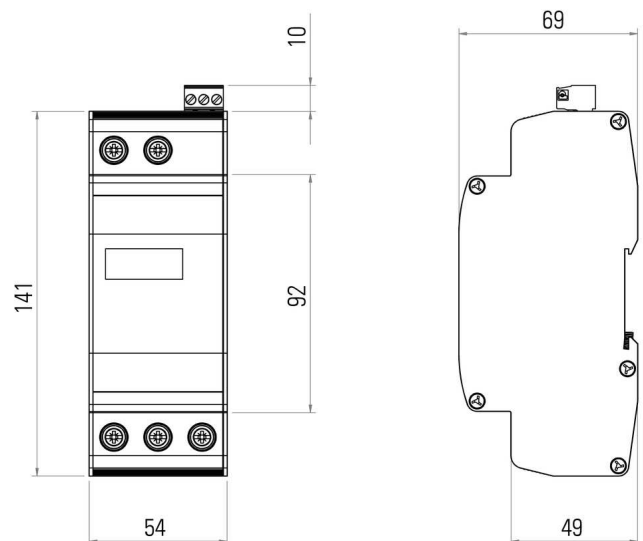
MULTIMOV surge diverters feature a parallel redundant arrangement of high energy metal oxide varistors (MOVs), thus promoting long life and exceptional surge handling capacity. In the event of a varistor failure the remaining segments continue to provide protection.

**Active Monitoring**

A digital display confirms the device rating by displaying the percentage active of the redundant segments. The display indicates segment status and thermal overload. A failsafe alarm contact allows for remote monitoring.

**Safe Metal Enclosure**





Novaris power protection products are housed in safe, all metal enclosures. In the event of a prolonged overvoltage they will not catch fire or explode.

**Wiring****Dimensions****Standards**

IEC 61643-11:2011  
AS/NZS 1768:2007  
UL 1449 3rd edition  
IEEE 62.41.2:2002

SPD connected to low-voltage power systems - Type 1+2  
A.C. power system SPD - Cat C, B  
Low voltage SPD - Type 2  
Low voltage SPD - Cat B




### Electrical Specifications

|                               |   |           |
|-------------------------------|---|-----------|
| Connection type               |  | Shunt     |
| Modes of protection           |  | L-N       |
| Number of ports               |   | 1         |
| Number of phases              |  | 1         |
| Location                      |   | Indoor    |
| Nominal voltage               | $U_0$   | 230VAC    |
| Short circuit withstand level | $I_{SSCR}$  | 50kA      |
| Maximum backup fuse           |  | 63A       |
| Recommended SCB               |   | SCB1-3-80 |
| Earth leakage current         | $I_{PE}$  | N/A       |
















### Electrical (L-N) Specifications

|   |           |        |
|---|-----------|--------|
| Maximum continuous voltage AC               | $U_c$     | 275VAC |
| Maximum discharge current (8/20 $\mu$ s)    | $I_{max}$ | 100kA  |
| Nominal discharge current (8/20 $\mu$ s)    | $I_n$     | 40kA   |
| Lightning impulse current (10/350 $\mu$ s)  | $I_{imp}$ | 12.5kA |
| Voltage protection level (3kA 8/20 $\mu$ s) | $U_p$     | <800V  |
| Voltage protection level (In)               | $U_p$     | <1500V |
| Response time                               | $t_A$     | <25ns  |
| Voltage withstand (5s)                      | $U_T$     | 335V   |

### Indication Specifications

|                 |   |                                |
|-----------------|---|--------------------------------|
| Display         |  | Digital display of % active    |
| Alarm           |  | SPDT power and thermal failure |
| Alarm isolation |  | 4kV                            |

### Mechanical Specifications

|                                |   |                    |
|--------------------------------|---|--------------------|
| Minimum operating temperature  |  | -40°C              |
| Maximum operating temperature  |  | 70°C               |
| Minimum operating humidity     |  | 5%                 |
| Maximum operating humidity     |  | 95%                |
| Mounting method                |  | TS35 DIN Rail      |
| Environmental rating           |  | IP20               |
| Enclosure material             |  | Aluminium          |
| Enclosure finish               |  | Black powdercoat   |
| Terminal capacity - power      |  | 16mm <sup>2</sup>  |
| Terminal screw torque - power  |  | 2Nm                |
| Terminal capacity - alarms     |  | 2.5mm <sup>2</sup> |
| Terminal screw torque - alarms |  | 0.5Nm              |
| Length                         |  | 141mm              |
| Width                          |  | 54mm               |
| Height                         |  | 69mm               |

### Other Specifications

Product Code  SD1-100-275

### Shipping Specifications

Weight  500g  
 Customs tariff  85354010