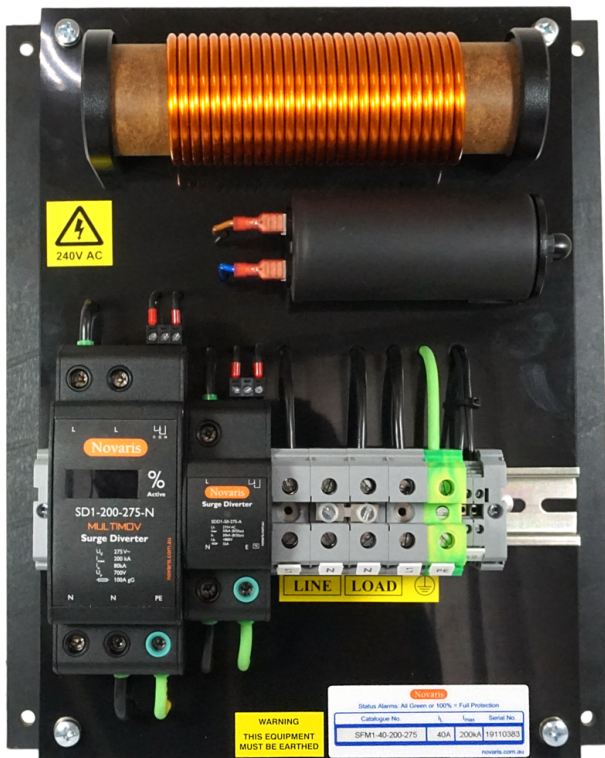


## Product Datasheet

## SFM1-40-200-275

**Medium current filters**

Novaris SFM filters provide the highest level of protection with the lowest let through voltage. Installation at a main switch board will protect all the connected downstream equipment.

**Percentage active display**

A digital display confirms the device rating by displaying the percentage active of the redundant segments. The display indicates segment status and thermal overload.

**Three stages of protection**

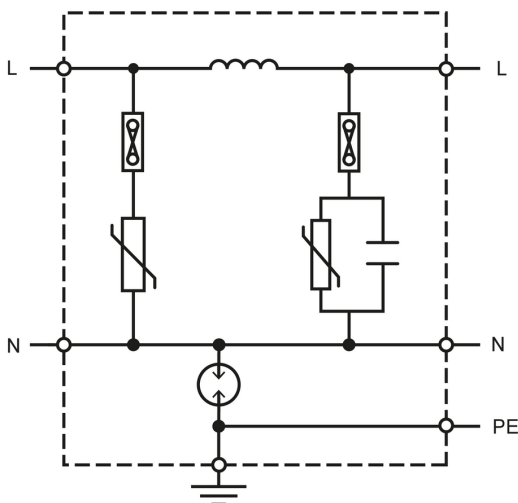
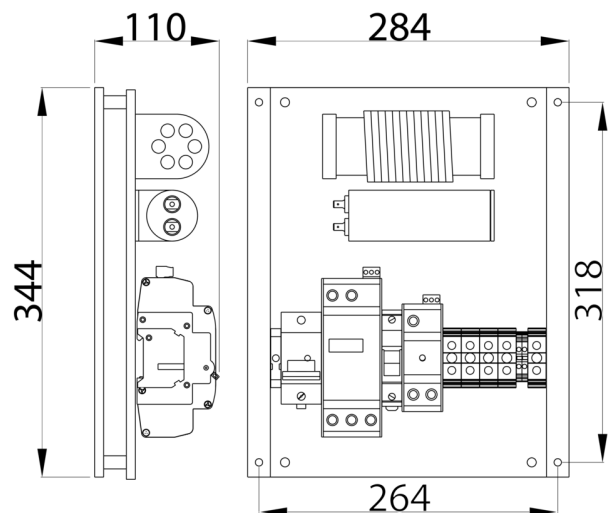
Novaris surge filters have 2 stages of varistor protection separated by a low pass LC filter. This 3 stage combination reduces the effects of high frequency noise and transients to provide the highest level of protection to sensitive loads.

**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.

**Active alarms**

Fail-safe alarm contact allows for remote monitoring.





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

IEC 61643-11:2011  
AS/NZS 1768:2007

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

## Product Datasheet




## Electrical Specifications

|                               |   |                 |
|-------------------------------|---|-----------------|
| Connection type               |  | Series          |
| Modes of protection           |  | L-N, L-PE, N-PE |
| Number of ports               |   | 2               |
| Number of phases              |  | 1               |
| Location                      |   | Indoor          |
| Nominal voltage               | $U_0$   | 230VAC          |
| Short circuit withstand level | $I_{SSCR}$  | 50kA            |
| Maximum backup fuse           |  | 40A             |
| Earth leakage current         | $I_{PE}$  | <1 $\mu$ A      |














## Electrical (L-N) Specifications

|   |           |               |
|---|-----------|---------------|
| Maximum load current                        | $I_L$     | 40A           |
| Maximum continuous voltage AC               | $U_c$     | 275VAC        |
| Maximum voltage drop (% of $U_0$ )          |           | <1%           |
| 3dB frequency @ 50 $\Omega$                 |           | 320Hz         |
| Maximum discharge current (8/20 $\mu$ s)    | $I_{max}$ | 200kA         |
| Nominal discharge current (8/20 $\mu$ s)    | $I_n$     | 80kA          |
| Lightning impulse current (10/350 $\mu$ s)  | $I_{imp}$ | 25kA          |
| Voltage protection level (3kA 8/20 $\mu$ s) | $U_p$     | 490V          |
| Response time                               | $t_A$     | Instantaneous |

## Indication Specifications

|                       |   |                                   |
|-----------------------|---|-----------------------------------|
| Alarm contact current |   | 2A                                |
| Display               |  | LED power and thermal failure     |
| Alarm                 |  | SPST NC 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                |  | Panel              |
| Environmental rating           |  | IP20               |
| Terminal capacity - power      |  | 35mm <sup>2</sup>  |
| Terminal screw torque - power  |  | 1Nm                |
| Terminal capacity - alarms     |  | 2.5mm <sup>2</sup> |
| Terminal screw torque - alarms |  | 0.5Nm              |
| Length                         |  | 344mm              |
| Width                          |  | 284mm              |
| Height                         |  | 110mm              |

## Other Specifications

|              |   |                 |
|--------------|---|-----------------|
| Product Code |  | SFM1-40-200-275 |
|--------------|---|-----------------|

## Shipping Specifications

|        |   |      |
|--------|---|------|
| Weight |  | 15kg |
|--------|---|------|