

# Service Entrance Suppressor, 200 kA



## FEATURES

200kA 8/20 $\mu$ s primary protection rated for service entrance applications

Modular design allows easy replacement of surge modules

Built-in disconnect and fusing eliminates need for external fusing

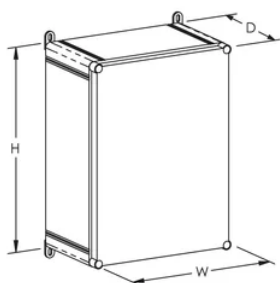
Transient Discriminating (TD) Technology provides increased service life

## SPECIFICATIONS

| Catalog Number                           | SES200120/240                         | SES200277/480                          |
|------------------------------------------|---------------------------------------|----------------------------------------|
| Article Number                           | 700745                                |                                        |
| Nominal System Voltage (Un)              | 120/240 V                             | 277/480 V                              |
| Distribution System                      | 1Ph 3W+G                              | 3Ph Y 4W+G                             |
| Max Continuous Operating Voltage (Uc)    | 170/340 VAC                           | 400/692 VAC                            |
| Stand-off Voltage                        | 240/480 V                             | 480/831 V                              |
| Frequency                                | 50 - 60 Hz                            | 50 - 60 Hz                             |
| Short Circuit Current Rating (SCCR)      | 200kA                                 | 200kA                                  |
| Nominal Discharge Current (In), Per Mode | 80kA 8/20 $\mu$ s                     | 80kA 8/20 $\mu$ s                      |
| Max Discharge Current (Imax), Per Mode   | 100kA 8/20 $\mu$ s                    | 100kA 8/20 $\mu$ s                     |
| Voltage Protection Rating (VPR)          | 600 V @ 3 kA L-N<br>800 V @ 20 kA L-N | 900 V @ 3 kA L-N<br>1000 V @ 20 kA L-N |

| Catalog Number         | SES200120/240                                                                                                                                 | SES200277/480                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Aggregate Surge Rating | 200                                                                                                                                           | 200                                                                                                                                           |
| Impulse Current (Iimp) | 20kA 10/350 $\mu$ s                                                                                                                           | 20kA 10/350 $\mu$ s                                                                                                                           |
| Max Operating Current  | 25 mA                                                                                                                                         | 25 mA                                                                                                                                         |
| Protection Modes       | All modes protected                                                                                                                           | All modes protected                                                                                                                           |
| Status Indication      | 5 segment LED bar graph per phase                                                                                                             | 5 segment LED bar graph per phase                                                                                                             |
| Technology             | TD technology with thermal disconnect                                                                                                         | TD technology with thermal disconnect                                                                                                         |
| Lead Size              | 3 - 35 mm <sup>2</sup>                                                                                                                        | 3 - 35 mm <sup>2</sup>                                                                                                                        |
| Temperature            | -10 to 60 °C                                                                                                                                  | -10 to 60 °C                                                                                                                                  |
| Enclosure Material     | Polycarbonate                                                                                                                                 | Polycarbonate                                                                                                                                 |
| Enclosure Rating       | IP 66<br>NEMA®-4X                                                                                                                             | IP 66<br>NEMA®-4X                                                                                                                             |
| Mounting               | Wall mount                                                                                                                                    | Wall mount                                                                                                                                    |
| Depth (D)              | 190mm                                                                                                                                         | 190mm                                                                                                                                         |
| Height (H)             | 406 mm                                                                                                                                        | 406 mm                                                                                                                                        |
| Width (W)              | 305 mm                                                                                                                                        | 305 mm                                                                                                                                        |
| Unit Weight            | 8 kg                                                                                                                                          | 8 kg                                                                                                                                          |
| Certification Details  | UL® 1449 Edition 3 Type 1/2, 20 kA Mode                                                                                                       | UL® 1449 Edition 3 Type 1/2, 20 kA Mode                                                                                                       |
| Complies With          | ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C<br>ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 3, 100 kA 8/20 $\mu$ s, 10 kA 10/350 $\mu$ s | ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C<br>ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 3, 100 kA 8/20 $\mu$ s, 10 kA 10/350 $\mu$ s |

## DIAGRAMS



## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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