

DS252VG-400



- Type 1+2+3 unipolar surge protector
- 25 kA on 10/350µs impulse
- Low voltage Up
- Internal disconnection, status indicator and remote signaling
- Optimized to TOV
- IEC 61643-11 and UL1449 ed.5 compliance



|   |   |   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
|---|---|---|----------------------|--|--|-----------------------------------|--|---------------------|-----------------------|--|---|----------------------|----|------------------------------|---------------------------|----|-----------------------------------|--|----|------------------------|---|----|-------------------|--|----|-------------------|--|-----|-------------------------------|-------------------------|----|--------------------------------|---|----|------------------------------|---|------------------|-------------|---|------------------|-------|---|--------------------|-------|--|-----|-------|---|--|-------|--|-----|------------|--------------------|--|---------------|--------------------|--|-------------------------------|---------------------------------|-------|--------|-------------------------------------|---------|--------|-------------------------------------|---------|--------|----------------------------------|-----------------|----------|
|   | <b>Electrical Characteristics</b>   |   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| <p>V: High-energy varistor<br/>GSG: Specific gas tube<br/>Ft: Thermal fuse<br/>C: Remote signaling contact<br/>t*: Thermal disconnection system<br/>MI: Disconnection indicator</p> | <table border="1"> <tr><td>SPD type</td><td></td><td>1+2+3</td></tr> <tr><td>Network</td><td></td><td>230 V single-phase</td></tr> <tr><td>AC system</td><td></td><td>IT</td></tr> <tr><td>Nominal line voltage</td><td>Un</td><td>230/400 Vac</td></tr> <tr><td>Max. AC operating voltage</td><td>Uc</td><td>440 Vac</td></tr> <tr><td>Max. load current if series connection</td><td>IL</td><td>100 A</td></tr> <tr><td>Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection</td><td>UT</td><td>580 Vac withstand</td></tr> <tr><td>Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection</td><td>UT</td><td>770 Vac withstand</td></tr> <tr><td>Residual Current Leakage current to Ground</td><td>Ipe</td><td>None</td></tr> <tr><td>Follow current</td><td>If</td><td>None</td></tr> <tr><td>Nominal discharge current 15 x 8/20 µs impulses</td><td>In</td><td>30 kA</td></tr> <tr><td>Max. discharge current max. withstand @ 8/20 µs by pole</td><td>I<sub>max</sub></td><td>70 kA</td></tr> <tr><td>Impulse current by pole max. withstand 10/350µs by pole</td><td>I<sub>imp</sub></td><td>25 kA</td></tr> <tr><td>Total lightning current max. total withstand @ 10/350µs</td><td>I<sub>total</sub></td><td>50 kA</td></tr> <tr><td>Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50µs - 8/20µs</td><td>Uoc</td><td>20 kV</td></tr> <tr><td>Withstand on overvoltages IEEE C62.41.1</td><td></td><td>20 kV</td></tr> <tr><td>Specific energy by pole max. withstand 10/350 µs</td><td>W/R</td><td>156 kJ/ohm</td></tr> <tr><td>Connection mode(s)</td><td></td><td>L/PE and N/PE</td></tr> <tr><td>Protection mode(s)</td><td></td><td>Common mode/Differential mode</td></tr> <tr><td>Residual voltage @ In (8/20 µs)</td><td>Up-in</td><td>1.1 kV</td></tr> <tr><td>Protection level N/PE @ In (8/20µs)</td><td>Up N/PE</td><td>1.5 kV</td></tr> <tr><td>Protection level L/PE @ In (8/20µs)</td><td>Up L/PE</td><td>1.5 kV</td></tr> <tr><td>Admissible short-circuit current</td><td>I<sub>sc</sub></td><td>50 000 A</td></tr> </table> |   | SPD type             |  | 1+2+3                                    | Network                           |  | 230 V single-phase  | AC system             |  | IT  | Nominal line voltage | Un | 230/400 Vac                  | Max. AC operating voltage | Uc | 440 Vac                           | Max. load current if series connection | IL | 100 A                  | Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection | UT | 580 Vac withstand | Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection | UT | 770 Vac withstand | Residual Current Leakage current to Ground | Ipe | None                          | Follow current          | If | None                           | Nominal discharge current 15 x 8/20 µs impulses | In | 30 kA                        | Max. discharge current max. withstand @ 8/20 µs by pole | I <sub>max</sub> | 70 kA       | Impulse current by pole max. withstand 10/350µs by pole | I <sub>imp</sub> | 25 kA | Total lightning current max. total withstand @ 10/350µs | I <sub>total</sub> | 50 kA | Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50µs - 8/20µs | Uoc | 20 kV | Withstand on overvoltages IEEE C62.41.1 |  | 20 kV | Specific energy by pole max. withstand 10/350 µs | W/R | 156 kJ/ohm | Connection mode(s) |  | L/PE and N/PE | Protection mode(s) |  | Common mode/Differential mode | Residual voltage @ In (8/20 µs) | Up-in | 1.1 kV | Protection level N/PE @ In (8/20µs) | Up N/PE | 1.5 kV | Protection level L/PE @ In (8/20µs) | Up L/PE | 1.5 kV | Admissible short-circuit current | I <sub>sc</sub> | 50 000 A |
| SPD type  |   | 1+2+3   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Network   |   | 230 V single-phase                                  |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| AC system   |   | IT  |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Nominal line voltage  | Un  | 230/400 Vac   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Max. AC operating voltage   | Uc  | 440 Vac   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Max. load current if series connection  | IL  | 100 A   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection   | UT  | 580 Vac withstand                                   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection  | UT  | 770 Vac withstand                                   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Residual Current Leakage current to Ground  | Ipe   | None  |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Follow current  | If  | None  |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Nominal discharge current 15 x 8/20 µs impulses   | In  | 30 kA   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Max. discharge current max. withstand @ 8/20 µs by pole   | I <sub>max</sub>  | 70 kA   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Impulse current by pole max. withstand 10/350µs by pole   | I <sub>imp</sub>  | 25 kA   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Total lightning current max. total withstand @ 10/350µs   | I <sub>total</sub>  | 50 kA   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50µs - 8/20µs  | Uoc   | 20 kV   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Withstand on overvoltages IEEE C62.41.1   |   | 20 kV   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Specific energy by pole max. withstand 10/350 µs  | W/R   | 156 kJ/ohm  |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Connection mode(s)  |   | L/PE and N/PE                                       |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Protection mode(s)  |   | Common mode/Differential mode                       |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Residual voltage @ In (8/20 µs)   | Up-in   | 1.1 kV  |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Protection level N/PE @ In (8/20µs)   | Up N/PE   | 1.5 kV  |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Protection level L/PE @ In (8/20µs)   | Up L/PE   | 1.5 kV  |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Admissible short-circuit current  | I <sub>sc</sub>   | 50 000 A  |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
|   | <b>Mechanical Characteristics</b>   |   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
|   | <table border="1"> <tr><td>Technology</td><td></td><td>VG Technology (MOV+GSG)</td></tr> <tr><td>SPD configuration</td><td></td><td>Single phase</td></tr> <tr><td>Connection to Network</td><td></td><td>By screw terminals: 6-35mm<sup>2</sup> / by bus</td></tr> <tr><td>Format</td><td></td><td>1-pole modular box assembled</td></tr> <tr><td>Mounting</td><td></td><td>Symmetrical rail 35 mm (EN 60715)</td></tr> <tr><td>Housing material</td><td></td><td>Thermoplastic UL94 V-0</td></tr> <tr><td>Operating temperature</td><td>Tu</td><td>-40/+85°C</td></tr> <tr><td>Protection rating</td><td></td><td>IP20</td></tr> <tr><td>Failsafe mode</td><td></td><td>Disconnection from AC network</td></tr> <tr><td>Disconnection indicator</td><td></td><td>1 mechanical indicator by pole</td></tr> <tr><td>Remote signaling of disconnection</td><td></td><td>Output on changeover contact</td></tr> <tr><td>Dimensions</td><td></td><td>See diagram</td></tr> </table>  |   | Technology           |  | VG Technology (MOV+GSG)                  | SPD configuration                 |  | Single phase        | Connection to Network |  | By screw terminals: 6-35mm <sup>2</sup> / by bus    | Format               |    | 1-pole modular box assembled | Mounting                  |    | Symmetrical rail 35 mm (EN 60715) | Housing material                       |    | Thermoplastic UL94 V-0 | Operating temperature   | Tu | -40/+85°C         | Protection rating  |    | IP20              | Failsafe mode                              |     | Disconnection from AC network | Disconnection indicator |    | 1 mechanical indicator by pole | Remote signaling of disconnection               |    | Output on changeover contact | Dimensions  |                  | See diagram |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Technology  |   | VG Technology (MOV+GSG)                             |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| SPD configuration   |   | Single phase  |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Connection to Network   |   | By screw terminals: 6-35mm <sup>2</sup> / by bus    |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Format  |   | 1-pole modular box assembled                        |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Mounting  |   | Symmetrical rail 35 mm (EN 60715)                   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Housing material  |   | Thermoplastic UL94 V-0                              |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Operating temperature   | Tu  | -40/+85°C   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Protection rating   |   | IP20  |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Failsafe mode   |   | Disconnection from AC network                       |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Disconnection indicator   |   | 1 mechanical indicator by pole                      |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Remote signaling of disconnection   |   | Output on changeover contact                        |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Dimensions  |   | See diagram   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
|   | <b>Disconnectors</b>  |   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
|   | <table border="1"> <tr><td>Thermal disconnecter</td><td></td><td>Internal</td></tr> <tr><td>Installation ground fault breaker</td><td></td><td>Type 'S' or delayed</td></tr> <tr><td>Fuses</td><td></td><td>Fuse assembly: SFD1-25-20S / or Fuses Type gG 315 A</td></tr> </table>  |   | Thermal disconnecter |  | Internal                                 | Installation ground fault breaker |  | Type 'S' or delayed | Fuses                 |  | Fuse assembly: SFD1-25-20S / or Fuses Type gG 315 A |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Thermal disconnecter  |   | Internal  |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Installation ground fault breaker   |   | Type 'S' or delayed                                 |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Fuses   |   | Fuse assembly: SFD1-25-20S / or Fuses Type gG 315 A |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
|   | <b>Standards</b>  |   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
|   | <table border="1"> <tr><td>Standards compliance</td><td></td><td>IEC 61643-11 / EN 61643-11 / UL1449 ed.5</td></tr> <tr><td>Certification</td><td></td><td>UL Recognized</td></tr> </table>   |   | Standards compliance |  | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 | Certification                     |  | UL Recognized       |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Standards compliance  |   | IEC 61643-11 / EN 61643-11 / UL1449 ed.5            |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
| Certification   |   | UL Recognized                                       |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
|   | <b>Part number</b>  |   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |
|   | 2579  |   |                      |  |  |                                   |  |                     |                       |  |   |                      |    |                              |                           |    |                                   |  |    |                        |   |    |                   |  |    |                   |  |     |                               |                         |    |                                |   |    |                              |   |                  |             |   |                  |       |   |                    |       |  |     |       |   |  |       |  |     |            |                    |  |               |                    |  |                               |                                 |       |        |                                     |         |        |                                     |         |        |                                  |                 |          |