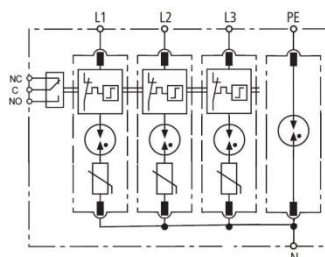
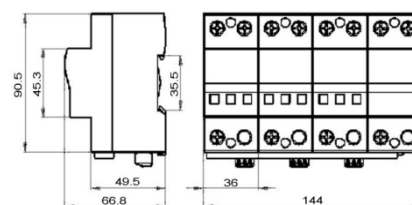




CE



Basic circuit diagram



Dimension drawing

Surge arrester for low-voltage power supply system protection against surges at the boundaries from lightning protection zone 0B -3 and higher.

| Type                                                        |                      | S-B25VT/275/3PN100                                               |
|-------------------------------------------------------------|----------------------|------------------------------------------------------------------|
| In accordance with                                          |                      | IEC61643-11:2011; UL1449 3rd                                     |
| Category IEC/VDE                                            |                      | I+ II / B+C                                                      |
| Max. continuous operating voltage (V)                       | L-N (AC/DC)          | 275/350                                                          |
|                                                             | N-PE (AC)            | 255                                                              |
| Nominal discharge current (8/20us) In                       | L-N                  | 25 kA                                                            |
|                                                             | N-PE                 | 100 kA                                                           |
| Max. discharge current (8/20us) I <sub>max</sub>            | L-N                  | 120 kA                                                           |
|                                                             | N-PE                 | 200 kA                                                           |
| Lightning impulse current (10/350us) I <sub>imp</sub>       | L-N                  | 25 kA                                                            |
|                                                             | N-PE                 | 100 kA                                                           |
| Open circuit voltage U <sub>oc</sub>                        |                      | 20 kV                                                            |
| Voltage protection level                                    | L-N @I <sub>n</sub>  | < 1.0 kV                                                         |
|                                                             | L-N @V <sub>PR</sub> | < 0.6 kV                                                         |
|                                                             | N-PE @1.2/50         | < 1.5 kV                                                         |
| Response time                                               |                      | ≤100 ns                                                          |
| Follow current / Leakage current                            | L-N                  | No / No                                                          |
|                                                             | N-PE                 | I <sub>fi</sub> =100Arms @ 255Vac / No                           |
| Backup fuse(only required if not already provided in mains) |                      | 315A gL/gG                                                       |
| Operating temperature range                                 |                      | - 40°C ~ + 80°C                                                  |
| Cross-section of connection wire                            |                      | Single-strand 35mm <sup>2</sup> ; multi-strand 25mm <sup>2</sup> |
| Mounting                                                    |                      | 35mm DIN-rail in accordance with EN 50022/DIN46277-3             |
| Enclosure material                                          |                      | Thermoplastic; extinguishing degree UL94 V-0                     |
| Degree of protection                                        |                      | IP20                                                             |
| Installation width                                          |                      | 8 modules, DIN 43880                                             |
| Thermal disconnect                                          |                      | Internal red - failure                                           |
| Remote alarm contact                                        |                      | Optional                                                         |
| Approvals, Certifications                                   |                      | CE                                                               |
| Remote alarm contact type                                   |                      | Isolated Form C                                                  |
| Switching capability Un/I <sub>n</sub>                      |                      | AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A                 |
| Max. Size of connecting wire                                |                      | Max. 1.5mm <sup>2</sup> (or # 16AWG)                             |