

Technical data sheet

System solution, surge arrester V20 in housing, 1-pole + NPE, 280 V

Item number: 5095381



Surge arrester, type 2, according to DIN EN 61643-11

- For surge voltage protection equipotential bonding to VDE 0100-443 (IEC 60364-4-44)
- Complete unit, pre-mounted and ready for connection in polycarbonate housing (IP66)
- Arresting capacity to 40 kA (8/20) per pole through high-performance varistors

Application: Equipotential bonding in main and sub-distributors.

If there is a danger of condensation forming through wind, ice, temperature or sunlight, further measures may be necessary!



Master data

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|---------------------|---------------------|
| Item number | 5095381 |
| Type | VG-V20-1+NPE-280 |
| Description 1 | SurgeController V20 |
| Description 2 | 1+1 in housing |
| Manufacturer | OBO |
| Dimension | 280V |
| Smallest sales unit | 1 |
| Unit of quantity | Piece |
| Weight | 74 kg |
| Weight unit | kg/100 pc. |

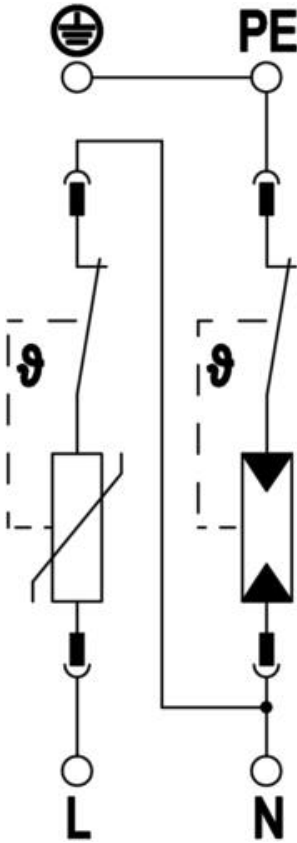
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|---|----------------------------|
| Arrester surge current (8/20 μ s) [total] | 60 kA |
| Connection cross-section (min.) | 1.5 mm ² |
| Connection cross-section, FM terminals, max. | 16 AWG |
| Connection cross-section, FM terminals, max. | 1.5 mm ² |
| Connection cross-section, FM terminals, min. | 21 AWG |
| Connection cross-section, FM terminals, min. | 0.5 mm ² |
| Response time | <25 ns |
| Response time [L-N] | 25 ns |
| Pole version | 1+N/PE |
| Structural width in division units (division unit, 17.5 mm) | Miscellaneous |
| Operating temperature, max. | 80 °C |
| Operating temperature, min. | -40 °C |
| Torque | 35 Lbs |
| Torque | 4 Nm |
| Torque for FM terminal | 1.7 Lbs |
| Torque for FM terminal | 0.2 Nm |
| Remote signalling | no |
| Follow current quenching capacity (eff) [N-PE] | 0.1 kA |
| Function/defect display | Visual |
| Maximum continuous voltage (L-N) | 280 V |
| Maximum continuous voltage (N-PE) | 255 V |
| Maximum continuous voltage AC | 280 |
| Maximum continuous voltage DC | 350 |
| Integrated back-up fuse | no |
| Short-circuit resistant | yes |
| Short-circuit resistance for max. mains-side overcurrent protection | 50 kA eff |
| Conductor cross-section, flexible (fine-wire), max. | 35 mm ² |
| Conductor cross-section, flexible (fine-wire), max. | 2 AWG |
| Conductor cross-section, flexible (fine-wire), min. | 16 AWG |
| Conductor cross-section, flexible (fine-wire), min. | 1.5 mm ² |
| Conductor cross-section, rigid (single-wire/multiwire), max. | 2 AWG |
| Conductor cross-section, rigid (single-wire/multiwire), max. | 35 mm ² |
| Conductor cross-section, rigid (single-wire/multiwire), min. | 16 AWG |
| Conductor cross-section, rigid (single-wire/multiwire), min. | 1.5 mm ² |
| Humidity, max. | 95 % |
| Humidity, min. | 5 % |
| Max. mains-side overcurrent protection | 160 A gL/gG |
| Maximum back-up fuse | 160 A |
| Maximum discharge current (8/20 μ s) | 40 kA |
| Maximum discharge current (8/20 μ s) [L-N] | 40 kA |
| Minimum distance | 1.5 mm |
| Installation type | Pre-mounted in the housing |
| Nominal discharge current (8/20 μ s) | 20 kA |
| Nominal discharge current (8/20 μ s) [L-N] | 20 kA |
| Nominal discharge current (8/20 μ s) [N-PE] | 40 kA |
| Nominal voltage AC (50/60 Hz) | 230 V |
| Network form | Other |
| Ports | One-Port SPD |
| Test class, type 2 | yes |
| Residual voltage U _R [L-N] @ 1 kA | 0.7 kV |

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