

Technical data sheet

Surge arrester V10 – Mini

Item number: 5094946



Surge protective device, compact module, type 2+3

- Surge protection in the smallest of spaces, e.g. in AC charging stations
- Discharge capacity up to 20kA (L-N) and 40kA (N-PE)
- Integrated 3+1-solution for TN and TT network systems with a 35 mm module width
- Including thermal and dynamic cut-off unit and visual function display
- Easy and quick installation thanks to FastOn connection terminals
- Wiring set (5089657 – WS-V10-3+1) available
- Including a potential-free break contact for remote signalling



Master data

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|---------------------|------------------------|
| Item number | 5094946 |
| Type | V10-3+1+FS-300-M |
| Description 1 | SurgeController V10 |
| Description 2 | 3-pole with NPE and RS |
| Manufacturer | OBO |
| Dimension | 300V |
| Smallest sales unit | 1 |
| Unit of quantity | Piece |
| Weight | 13.2 kg |
| Weight unit | kg/100 pc. |

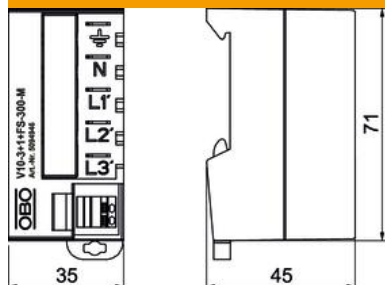
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Dimensions



| | |
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| Length | 38 mm |
| Width | 35 mm |
| Height | 76 mm |

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| Arrester surge current (8/20 μ s) [total] | 60 kA |
| Connection cross-section, FM terminals, min. | 16 AWG |
| Connection cross-section, FM terminals, min. | 1.5 mm ² |
| Response time [L-N] | < 25 ns |
| Response time [N-PE] | <100 ns |
| Version for | 3+NPE |
| Pole version | 3+N/PE |
| Structural width in division units (division unit, 17.5 mm) | Miscellaneous |
| Installation location | Interior |
| Remote signalling | yes |
| FM contacts | NC contact |
| Follow current quenching capacity (eff) [N-PE] | 0.1 kA |
| Function/defect display | Visual |
| Suitable for outdoor use | no |
| Maximum continuous voltage (L-N) | 300 V |
| Maximum continuous voltage (N-PE) | 255 V |
| Integrated back-up fuse | no |
| Conductor cross-section, rigid (single-wire/multiwire), max. | 10 mm ² |
| Conductor cross-section, rigid (single-wire/multiwire), min. | 2.5 mm ² |
| Lightning protection zone LPZ | 1→3 |
| Humidity, min. | 5 % |
| Humidity, max. | 95 % |
| Max. mains-side overcurrent protection | 63 A gG |
| Maximum back-up fuse | 63 A |
| Maximum discharge current (8/20 μ s) [L-N] | 20 kA |
| Maximum discharge current (8/20 μ s) [N-PE] | 40 kA |
| Minimum distance | 0 mm |
| Installation type | DIN rail 35 mm |
| Nominal discharge current (8/20 μ s) | 10 kA |

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| Nominal frequency | 50 Hz |
| Nominal voltage AC (50/60 Hz) | 240 V |
| Network form | All |
| DC network form | no |
| IT network form | no |
| Other network form | no |
| TN network form | yes |
| TN-C network form | no |
| TN-C-S network form | yes |
| TN-S network form | yes |
| TT network form | yes |
| OBO_Nominal load current (input/output terminal) | 32 A |
| Ports | One-Port SPD |
| Test class, type 2 | yes |
| Test class, type 3 | yes |
| Switching power AC | 250V / 1A ; 125V / 1A |
| Switching power DC | 48V / 0,5A; 24V / 0,5A; 12V / 0,5A |
| Protection rating | IP20 |
| Protective conductor current | < 5 μ A |
| Protection level | $\leq 1,5$ kV |
| Signalling on device | Visual |
| SPD to EN 61643-11 | Type 2+3 |
| SPD to IEC 61643-1 | Class II+III |
| Permitted temperature range, max. | 85 °C |
| Permitted temperature range, min. | -40 °C |
| TOV voltage [L-N] – fail safe mode – 120 min. | 442 V |
| TOV voltage [L-N] – withstand mode – 5 s | 337 V |
| TOV voltage [N-PE] – withstand mode – 200 ms | 1200 V |
| Number of conductors (without earth) | 4 |