# Technical data sheet

## PV complete block 1500 V DC

## Item number: 5094210

Type 2 surge protection for PV plants.

- Surge protection according to IEC 60364-7-712 (VDE 0100-712)
- Arresting capacity of 20 kA per pole and up to 40 kA (8/20)
- Error-resistant Y circuit with status display
- The FS variant possesses a potential-free changeover contact for remote signalling

Application: Surge protective devices for PV systems.

Type 2 | LPZ 1→2

### Master data

| | |
|---|---|
| Item number | 5094210 |
| Description 1 | SurgeController V-PV |
| Description 2 | Y-connection for PV systems |
| Manufacturer | OBO |
| Dimension | 1500V DC |
| Colour | Grey |
| Smallest sales unit | 1 |
| Unit of quantity | Piece |
| Weight | 33.8 kg |
| Weight unit | kg/100 pc. |

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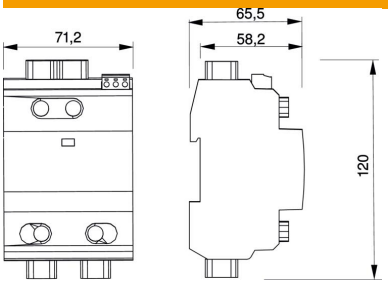
### Dimensions




| | |
|---|---|
| Length | 65.5 mm |
| Width | 71.2 mm |
| Height | 120 mm |

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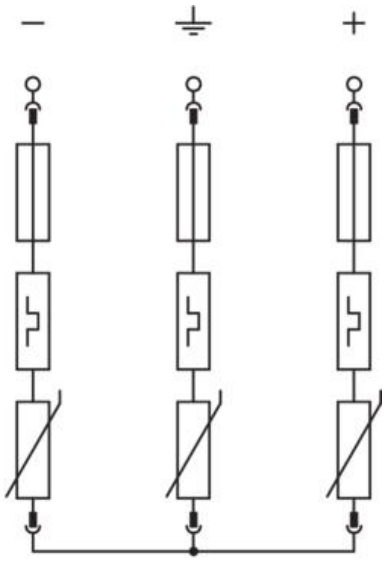


| | |
|---|---|
| Arrester surge current (8/20 µs) [total] | 40 kA |
| Response time | <25 ns |
| Blow-out | no |
| Version for | Y configuration |
| Pole version | Other |
| Structural width in division units (division unit, 17.5 mm) | 4 |
| Operating temperature, max. | 80 °C |
| Operating temperature, min. | -40 °C |
| Explosion-tested version | no |
| Remote signalling | no |
| Maximum continuous voltage DC | 1500 V |
| Integrated back-up fuse | no |
| Conductor cross-section, flexible (fine-wire), max. | 35 mm² |
| Conductor cross-section, flexible (fine-wire), min. | 2.5 mm² |
| Conductor cross-section, rigid (single-wire/multiwire), max. | 35 mm² |
| Conductor cross-section, rigid (single-wire/multiwire), min. | 2.5 mm² |
| Lightning protection zone LPZ | 1→2 |
| Max. PV voltage | 1500 V |
| Maximum discharge current (8/20 µs) | 40 kA |
| Installation type | DIN rail 35 mm |
| Nominal discharge current (8/20 µs) | 20 kA |
| Network form | DC |
| DC network form | yes |
| IT network form | no |
| Other network form | no |
| TN network form | no |
| TN-C network form | no |
| TN-C-S network form | no |
| TN-S network form | no |
| TT network form | no |
| OBO_Nominal load current (input/output terminal) | 50 A |
| Test class, type 1 | no |

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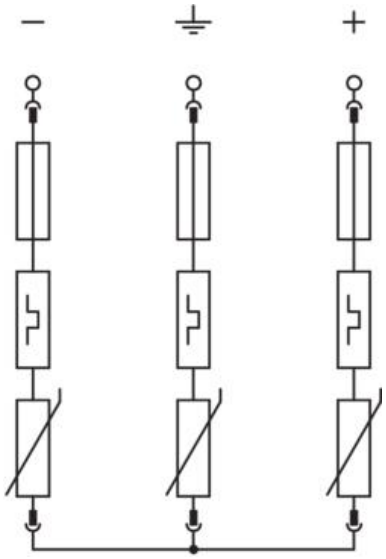


| | |
|---|---|
| Test class, type 2 | yes |
| Test class, type 3 | no |
| Protection rating | IP20 |
| Protection level | ≤4,5 |
| Signalling on device | Visual |
| SPD to EN 61643-11 | Type 2 |
| SPD to IEC 61643-1 | Class II |
| Cable type for surge protection devices | Power cable DC (PV) |