

Technical data sheet

PV complete block 1,500 V DC with remote signalling

Item number: 5094212



- 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.



| Master data         |                               |  |
|---------------------|-------------------------------|--|
| Item number         | 5094212                       |  |
| Description 1       | SurgeController V-PV          |  |
| Description 2       | Y-connection PV system+remote |  |
| Manufacturer        | OBO                           |  |
| Dimension           | 1500V DC                      |  |
| Colour              | Grey                          |  |
| Smallest sales unit | 1                             |  |
| Unit of quantity    | Piece                         |  |
| Weight              | 34.4 kg                       |  |
| Weight unit         | kg/100 pc.                    |  |

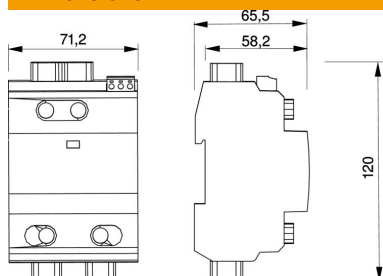
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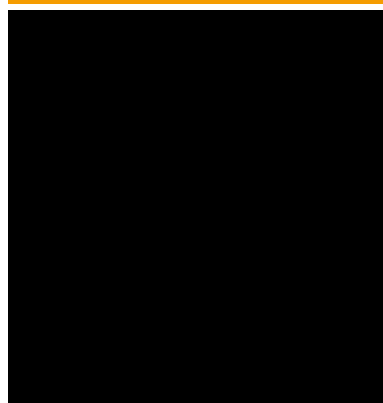


### Dimensions



|        |         |
|--------|---------|
| 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 + RS |
| 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                                            | yes                  |
| FM contacts                                                  | Changeover           |
| Maximum continuous voltage DC                                | 1500 V               |
| Integrated back-up fuse                                      | no                   |
| Conductor cross-section, flexible (fine-wire), max.          | 35 mm <sup>2</sup>   |
| Conductor cross-section, flexible (fine-wire), min.          | 2.5 mm <sup>2</sup>  |
| Conductor cross-section, rigid (single-wire/multiwire), max. | 35 mm <sup>2</sup>   |
| Conductor cross-section, rigid (single-wire/multiwire), min. | 2.5 mm <sup>2</sup>  |
| 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                 |

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|                                         |                     |
|-----------------------------------------|---------------------|
| Test class, type 1                      | no                  |
| 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) |