

# Technical data sheet

## PV complete block 1,500 V DC



Item number: 5094240



Type 1+2 combination arrester for lightning and surge protection of PV systems.

- Lightning protection equipotential bonding according to IEC 62305 (VDE 0185-305)
- Surge protection according to IEC 60364-7-712 (VDE 0100-712)
- Arresting capacity to 12.5 kA (10/350) and 40 kA (8/20)
- Error-resistant Y circuit with status display
- The FS variant possesses a potential-free changeover contact for remote signalling

Application: Lightning current and surge protective devices for PV systems.



### Master data

|                                    |                             |
|------------------------------------|-----------------------------|
| Item number                        | 5094240                     |
| Type                               | V-PV-T1+2-1500              |
| Description 1                      | CombiController 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                             | 49.2 kg                     |
| Weight unit                        | kg/100 pc.                  |
| CO2 Footprint (GWP) Cradle-to-Gate | 0,1594 kg CO2e / 1 Piece    |

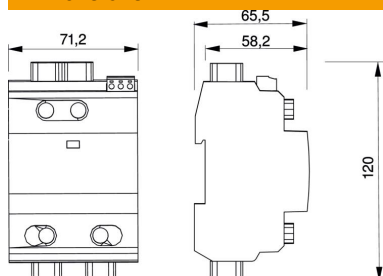
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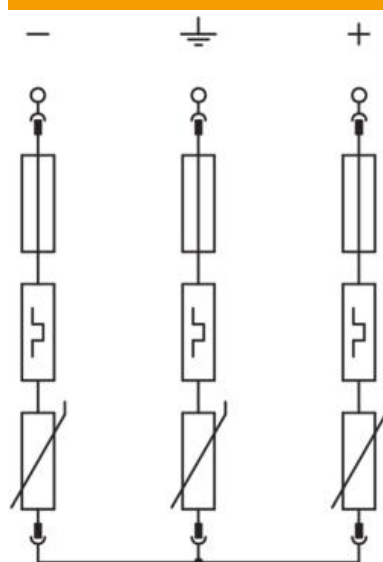


### Dimensions



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

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|  |                     |
|--|---------------------|
| Arrester surge current (8/20 $\mu$ s) [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              |
| Lightning surge current (10/350 $\mu$ s)                     | 6.25 kA             |
| Lightning surge current (10/350)                             | 12.5 kA             |
| Remote signalling  | no                  |
| 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                                | 0→2                 |
| Max. PV voltage  | 1500 V              |
| Maximum discharge current (8/20 $\mu$ s)                     | 40 kA               |
| Installation type  | DIN rail 35 mm      |
| Nominal discharge current (8/20 $\mu$ s)                     | 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                |

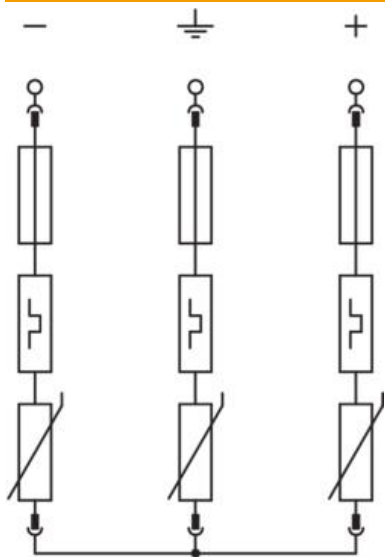
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|                                   |            |
|-----------------------------------|------------|
| Testclass, type 1                 | yes        |
| Testclass, type 2                 | yes        |
| Protection rating                 | IP20       |
| Protection level                  | ≤4,5 kV    |
| Signalling on device              | Visual     |
| SPD to EN 61643-11                | Type 1+2   |
| SPD to IEC 61643-1                | Class I+II |
| Permitted temperature range, max. | 80 °C      |
| Permitted temperature range, min. | -40 °C     |