



HDT/6/24-F1,1

- Combined two-stage surge protectors intended for a low voltage data and power supply lines routed by a common cable.
- Contains both 1st and 2nd stage of protection.
- The overcurrent protection of the power supply line is ensured by a PPTC resettable fuse.

- To reset the PPTC, the circuit must be switched off and let the fuse cool down, do not have to be changed.
- The protection devices must be installed just in front of the protected device.

| Туре | | HDT/6/24-F1,1 |
|--|-------------------|------------------------------|
| Testing category according to IEC 61643-21:2000 and EN 61643-21:2001 | | C1, C2, C3 |
| Connector type | | Screw terminals |
| Rated operating DC voltage (Data line protection) | U _N | 0 ÷ 6 V |
| Maximum continuous operating voltage DC (Data line protection) | U _c | 7.2 V |
| Rated load current (Data line protection) | ار | 0.1 A |
| Rated operating DC voltage (Power supply system protection) | U _N | 0 ÷ 24 V |
| Maximum continuous operating voltage DC (Power supply system protection) | U _c | 28.6 V |
| Rated load current (Power supply system protection) | ١ | 1.1 A |
| Hold-current of the resettable fuse at -40, 23, 70 °C | I _{hold} | 1790, 1100, 580 mA |
| Trip-current of the resettable fuse at -40, 23, 70 °C | I _{trip} | 3580, 2200, 1160 mA |
| C1 Nominal discharge current (8/20) | l _n | 1 kA |
| C1 Voltage protection level at In (line/G) | Up | < 40 V |
| C1 Voltage protection level at In (line/line) | Up | < 35 V |
| C2 Nominal discharge current (8/20) | I _n | 10 kA |
| C2 Voltage protection level at In (line/G) | Up | < 60 V |
| C2 Voltage protection level at In (line/line) | Up | < 40 V |
| C3 Voltage protection level at 1 kV/µs (line/G) | Up | < 35 V |
| C3 Voltage protection level at 1 kV/µs (line/line) | Up | < 35 V |
| Bandwidth | В | 0 ÷ 1 MHz |
| Lightning protection zone | | LPZ 1-2, LPZ 2-3 |
| Housing material | | Polyamid PA6, UL94 V-0 |
| Degree of protection | | IP20 |
| Operating temperature | θ | -40 ÷ 70 °C |
| Recommended cross-section of connected conductors | S | $0.25 \div 1.5 \text{ mm}^2$ |
| Clamp fastening range (solid conductor) | | $0.25 \div 4 \text{ mm}^2$ |
| Clamp fastening range (stranded conductor) | | $0.25 \div 2.5 \text{ mm}^2$ |
| Tightening moment | | 0,4 Nm |
| Installation | | On DIN rail 35 mm |
| Modular width | | 1 TE |
| Operating position | | Any |
| Signalling at the device | | None |

Surge protection for data and information signal transmission



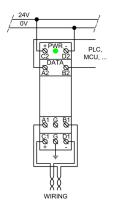
| Time | | |
|--|---|----------------------|
| Туре | | HDT/6/24-F1,1 |
| Remote signalling | | No |
| Modular design | | No |
| Lifetime | | > 100 000 h |
| Designed according to standards | | |
| Requirements and test methods for SPDs connected to telecommunications and signalling networks | | IEC 61643-21:2000 |
| Safety of Flammability of Plastic Materials | | UL 94 |
| Application standards | | |
| Protection against lightning | | IEC 62305:2010 |
| Ordering, packaging and additional data | | |
| Mass | m | 55 g |
| Mass (including the packaging) | m | 66 g |
| Packaging dimensions (H x W x D) | | 26 x 98 x 73 mm |
| Packaging value | V | 0.19 dm ³ |
| ETIM group | | EG000021 |
| ETIM class | | EC000943 |
| Customs tariff no. | | 85363010 |
| EAN code | | 8590681163252 |
| Art. number | | 56 101 |



The link in the QR code leads to the online presentation of the HDT/6/24-F1,1. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit www.hakel.com



Application wiring diagram (installation)



Internal diagram

