

HDT/6/24-F0,25

- 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.

Type		HDT/6/24-F0,25
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 <sub>N</sub>	0 ÷ 6 V
Maximum continuous operating voltage DC (Data line protection)	U <sub>C</sub>	7.2 V
Rated load current (Data line protection)	I <sub>L</sub>	0.1 A
Rated operating DC voltage (Power supply system protection)	U <sub>N</sub>	0 ÷ 24 V
Maximum continuous operating voltage DC (Power supply system protection)	U <sub>C</sub>	28.6 V
Rated load current (Power supply system protection)	I <sub>L</sub>	0.25 A
Hold-current of the resettable fuse at -40, 23, 70 °C	I <sub>hold</sub>	408, 250, 133 mA
Trip-current of the resettable fuse at -40, 23, 70 °C	I <sub>trip</sub>	816, 500, 266 mA
C1 Nominal discharge current (8/20)	I <sub>n</sub>	1 kA
C1 Voltage protection level at I <sub>n</sub> (line/G)	U <sub>p</sub>	< 40 V
C1 Voltage protection level at I <sub>n</sub> (line/line)	U <sub>p</sub>	< 35 V
C2 Nominal discharge current (8/20)	I <sub>n</sub>	10 kA
C2 Voltage protection level at I <sub>n</sub> (line/G)	U <sub>p</sub>	< 60 V
C2 Voltage protection level at I <sub>n</sub> (line/line)	U <sub>p</sub>	< 40 V
C3 Voltage protection level at 1 kV/μs (line/G)	U <sub>p</sub>	< 35 V
C3 Voltage protection level at 1 kV/μs (line/line)	U <sub>p</sub>	< 35 V
Bandwidth	B	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 ÷ 1.5 mm <sup>2</sup>
Clamp fastening range (solid conductor)		0.25 ÷ 4 mm <sup>2</sup>
Clamp fastening range (stranded conductor)		0.25 ÷ 2.5 mm <sup>2</sup>
Tightening moment		0,4 Nm
Installation		On DIN rail 35 mm
Modular width		1 TE
Operating position		Any
Signalling at the device		None

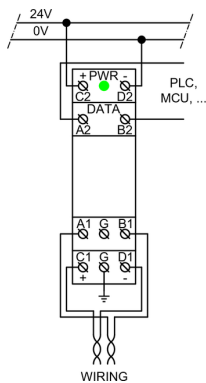
Type		HDT/6/24-F0,25
Remote signalling		No
Pluggable version		No
Lifetime		> 100 000 h
Designed according to standards		
Requirements and test methods for SPDs connected to telecommunications and signalling networks		IEC 61643-21:2000
Safety of Flammability of Plastic Materials		UL 94
Application standards		
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 <sup>3</sup>
ETIM group		EG000021
ETIM class		EC000943
Customs tariff no.		85363010
EAN code		8590681270400
Art. number		56 100



The link in the QR code leads to the online presentation of the **HDT/6/24-F0,25**. 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.hakil.com](http://www.hakil.com)



Application wiring diagram (installation)



Internal diagram

