

## 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)	$U_N$	0 ÷ 6 V
Maximum continuous operating voltage DC (Data line protection)	$U_C$	7.2 V
Rated load current (Data line protection)	$I_L$	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)	$I_L$	0.25 A
Hold-current of the resettable fuse at -40, 23, 70 °C	$I_{hold}$	408, 250, 133 mA
Trip-current of the resettable fuse at -40, 23, 70 °C	$I_{trip}$	816, 500, 266 mA
C1 Nominal discharge current (8/20)	$I_n$	1 kA
C1 Voltage protection level at $I_n$ (line/G)	$U_p$	< 40 V
C1 Voltage protection level at $I_n$ (line/line)	$U_p$	< 35 V
C2 Nominal discharge current (8/20)	$I_n$	10 kA
C2 Voltage protection level at $I_n$ (line/G)	$U_p$	< 60 V
C2 Voltage protection level at $I_n$ (line/line)	$U_p$	< 40 V
C3 Voltage protection level at 1 kV/μs (line/G)	$U_p$	< 35 V
C3 Voltage protection level at 1 kV/μs (line/line)	$U_p$	< 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	$\vartheta$	-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

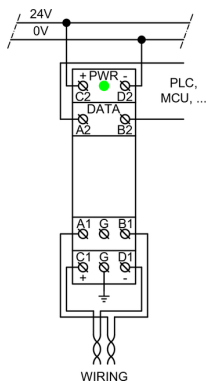
Type		HDT/6/24-F0,25
Remote signalling		No
Modular design		No
Lifetime		> 100 000 h
<b>Designed according to standards</b>		
Requirements and test methods for SPDs connected to telecommunications and signalling networks		IEC 61643-21:2000
Safety of Flammability of Plastic Materials		UL 94
<b>Application standards</b>		
Protection against lightning		IEC 62305:2010
<b>Ordering, packaging and additional data</b>		
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
<b>Art. number</b>		<b>56 100</b>



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.hakel.com](http://www.hakel.com)



### Application wiring diagram (installation)



### Internal diagram

