

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.

Type		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)	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	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)	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	ϑ	-40 ÷ 70 °C
Recommended cross-section of connected conductors	S	0.25 ÷ 1.5 mm ²
Clamp fastening range (solid conductor)		0.25 ÷ 4 mm ²
Clamp fastening range (stranded conductor)		0.25 ÷ 2.5 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

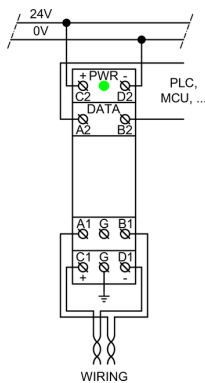
Type		HDT/6/24-F1,1
Remote signalling		No
Modular design		No
Lifetime		> 100 000 h
Designed according to standards		
Requirements and test methods for SPDs connected to telecommunications and signalling networks		IEC 61643-21:2000
Safety of Flammability of Plastic Materials		UL 94
Application standards		
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

