

HGDT20

- Lightning impulse current and surge arresters type T1+T2.
- The products consist of gas discharge tube with high discharge ability.
- Installed at the boundaries of LPZ 0 – LPZ 2, in TN-S, TT power supply systems and in a special design also in IT power supply system.
- Balance the potential between the N and PE conductors in 1+1, 3+1 connection modes.
- Ensures zero leakage current through the PE conductor.
- **M** indication specifies a type of construction with removable module.

Type		HGDT20
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T1, T2
System		TN-S, TT
Maximum continuous operating voltage AC	U_C	255 V
Impulse discharge current for class I test (10/350) N/PE	I_{imp}	20 kA
Charge (N/PE)	Q	10 As
Specific energy for class I test (N/PE)	W/R	100 kJ/Ω
Nominal discharge current for class II test (8/20) N/PE	I_n	20 kA
Voltage protection level at I_{imp}	U_p	< 1.4 kV
Temporary overvoltage test (TOV) for $t_T = 0.2$ s (N/PE)	U_T	1 200 V
Response time (N/PE)	t_A	< 100 ns
Follow current interrupt rating	I_{fi}	0.1 kA _{rms}
Lightning protection zone		LPZ 0-1, LPZ 1-2, LPZ 2-3
Housing material		Polyamid PA6, UL94 V-0
Degree of protection		IP20
Operating temperature	ϑ	-40 ÷ 70 °C
Minimum cross-section of connected Cu conductors accord. to HD 60364-5-53:2022 (doesn't apply to „V“ connection) for T1	S	6 mm ² (L, N) 16 mm ² (PE, PEN)
Minimum cross-section of connected Cu conductors accord. to HD 60364-5-53:2022 (doesn't apply to „V“ connection) for T2	S	2.5 mm ² (L, N) 6 mm ² (PE, PEN)
Clamp fastening range (solid conductor)		1.5 ÷ 25 mm ²
Clamp fastening range (stranded conductor)		1.5 ÷ 16 mm ²
Tightening moment		3 Nm
Installation		On DIN rail 35 mm
Modular width		1 TE
Operating position		Any
Signalling at the device		None
Remote signalling		No
Lifetime		> 100 000 h
Modular design		No

Designed according to standards

Requirements and test methods for SPDs connected to low-voltage power systems		IEC 61643-11:2011
Safety of Flammability of Plastic Materials		UL 94

Application standards

Protection against lightning		IEC 62305:2010
Selection and erection of electrical equipment – Switchgear and controlgear		HD 60364-5-53:2022
Selection and application principles for SPDs connected to low-voltage power systems		CLC/TS 61643-12:2009

Ordering, packaging and additional data

Mass	m	80 g
Mass (including the packaging)	m	91 g
Packaging dimensions (H x W x D)		26 x 98 x 73 mm
Packaging value	V	0.19 dm ³
Customs tariff no.		85363010
EAN code		8590681160244
Art. number		30 050



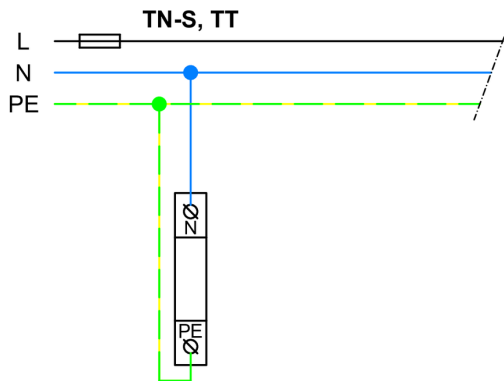
The link in the QR code leads to the online presentation of the HGDT20.

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



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Application wiring diagram (installation)



Internal diagram

