

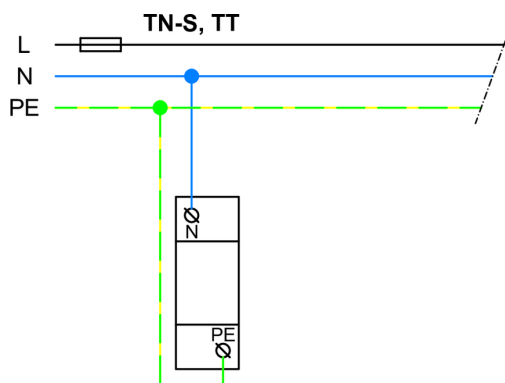
HLA100-255

- Impulse current arresters type T1 ensure the equipotential bonding and eliminate the effects of lightning current in single-phase and three-phase power supply systems.
- They are installed as a summing element between the N and PE conductors.
- Intended for installation together with HLA50 product range in a configuration of 1+1 and 3+1.
- Products contain non-exhausting spark gaps, thanks to which they are able to discharge the highest lightning impulse current.
- Suitable for objects with considerable levels of protection LPL I and LPL II, such as big industrial complexes and properties of particular importance – hospitals, banks, power plants.
- Installed as close as possible the overhead line enters the building i.e. the electric power substation, electrometer or the main distribution boards.

Type		HLA100-255
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T1
System		TN-S, TT
Number of poles		1
Maximum continuous operating voltage AC	U_C	255 V
Impulse discharge current for class I test (10/350)	I_{imp}	100 kA
Charge	Q	50 As
Specific energy for class I test	W/R	2 500 kJ/ Ω
Nominal discharge current for class II test (8/20)	I_n	100 kA
Voltage protection level at I_{imp}	U_p	< 2 kV
Temporary overvoltage test (TOV) for $t_T = 0.2$ s (N/PE)	U_T	1 200 V
Response time	t_A	< 100 ns
Follow current interrupt rating	I_{fi}	0.1 kA _{rms}
Lightning protection zone		LPZ0, LPZ1
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 60364-5-534:2016 (doesn't apply to „V“ connection) for T1	S	6 mm ² (L, N) 16 mm ² (PE, PEN)
Clamp fastening range (solid conductor)		2.5 ÷ 25 mm ²
Clamp fastening range (stranded conductor)		2.5 ÷ 16 mm ²
Tightening moment		4 Nm
Installation		On DIN rail 35 mm
Modular width		2 TE
Operating position		Any
Signalling at the device		None
Remote signalling		No
Modular design		No
Lifetime		> 100 000 h

Type		HLA100-255
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 – Devices for protection against transient overvoltages		HD 60364-5-534:2016
Selection and application principles for SPDs connected to low-voltage power systems		CLC/TS 61643-12:2009
Ordering, packaging and additional data		
Mass	m	360 g
Mass (including the packaging)	m	374 g
Packaging dimensions (H x W x D)		45 x 102 x 74 mm
Packaging value	V	0.34 dm ³
ETIM group		EG000021
ETIM class		EC000381
Customs tariff no.		85363010
EAN code		8590681165690
Art. number		10 910

Application wiring diagram (installation)



Internal diagram

