

HLSA12,5-385/2+0

- Lightning impulse current and surge arresters type T1+T2 ensure the equipotential bonding, eliminate the effects of lightning current and reduce switching, induced and residual overvoltage in single-phase and three-phase power supply systems.
- Suitable for objects with considerable levels of protection LPL III and LPL IV, such as small administration complexes, residential buildings, family houses or properties and halls without the incidence of persons and indoor equipment.
- Installed at the boundaries of LPZ 0 LPZ 1 and higher zones, closest to where overhead line enters the building i.e. in the main distribution boards.
- The products consist of varistors with big discharge ability.
- Configurations 1+1 and 3+1 are additionally combined with a gas discharge tube which ensures zero leakage current through the PE conductor.
- If the product contains two PE (or PEN) terminals, it must not be used as a PE (PEN) bridge.
- **S** indication specifies a version with remote monitoring.

Туре		HLSA12,5-385/2+0
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T1, T2
System		TN-S
Number of poles		2
Rated operating AC voltage	U_N	230 V
Maximum continuous operating voltage AC	U _c	385 V
Maximum discharge current (8/20)	I _{max}	50 kA
Impulse discharge current for class I test (10/350)	l _{imp}	12.5 kA
Charge	Q	6.25 As
Specific energy for class I test	W/R	39 kJ/Ω
Total discharge current (10/350) L+N->PE	I _{Total}	25 kA
Total discharge current (8/20) L+N->PE	I _{Total}	100 kA
Nominal discharge current for class II test (8/20)	l _n	20 kA
Open circuit voltage of the combination wave generator	U _{oc}	6 kV
Voltage protection level at I _n	U_p	< 1.5 kV
Temporary overvoltage test (TOV) for t _T = 5 s	U _T	466 V
Response time	t _A	< 25 ns
Maximal back-up fuse		160 A gL/gG
Short-circuit current rating at maximum back-up fuse	I _{SCCR}	60 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	Э	-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 mm² (L, N) 16 mm² (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 mm² (L, N) 6 mm² (PE, PEN)
Clamp fastening range (solid conductor)		1.5 ÷ 25 mm ²



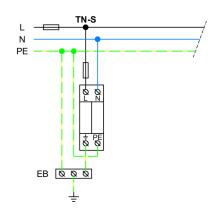
Clamp fastening range (stranded conductor) Tightening moment Installation Modular width Operating position Signalling at the device Importance of local signaling OK - clear FAULT - rec Remote signalling Modular design Lifetime Designed according to standards Requirements and test methods for SPDs connected to low-voltage power systems IEC 61643-1 Safety of Flammability of Plastic Materials Protection against lightning ILC 62305 Selection and erection of electrical equipment – Switchgear and controlgear HD 60364-5-	35 mm
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Safety of Flammability of Plastic Materials Application standards Protection against lightning IEC 62305	
Application standards Protection against lightning IEC 62305	1:2011
Protection against lightning IEC 62305	
Selection and erection of electrical equipment – Switchgear and controlgear HD 60364-5-	:2010
	53:2022
Selection and application principles for SPDs connected to low-voltage power systems CLC/TS 61643	3-12:2009
Ordering, packaging and additional data	
Mass m 474 g	
Mass (including the packaging) m 502 g	
Packaging dimensions (H x W x D) 74 x 112 x 3	73 mm
Packaging value V 0.61 dr	n^3
ETIM group EG0000	21
ETIM class EC0014	57
Customs tariff no. 853630	10
EAN code 85906811	13691
Art. number 10 32:	



The link in the QR code leads to the online presentation of the **HLSA12,5-385/2+0**. 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

