

HLSA12,5-320/1+1

- 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		HLSA12,5-320/1+1
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T1, T2
System		TN-S, TT
Number of poles		2
Rated operating AC voltage	U_N	230 V
Maximum continuous operating voltage AC	U _c	320 V
Maximum discharge current (8/20)	I _{max}	50 kA
Impulse discharge current for class I test (10/350) L/N	l _{imp}	12.5 kA
Charge (L/N)	Q	6.25 As
Specific energy for class I test (L/N)	W/R	39 kJ/Ω
Impulse discharge current for class I test (10/350) N/PE	l _{imp}	25 kA
Charge (N/PE)	Q	12.5 As
Specific energy for class I test (N/PE)	W/R	156 kJ/Ω
Total discharge current (10/350) L+N->PE	I _{Total}	25 kA
Total discharge current (8/20) L+N->PE	I _{Total}	50 kA
Nominal discharge current for class II test (8/20) L/N	l _n	20 kA
Nominal discharge current for class II test (8/20) N/PE	l _n	30 kA
Open circuit voltage of the combination wave generator	U _{oc}	6 kV
Voltage protection level at I _n (L/N)	U_p	< 1.25 kV
Voltage protection level at I _n (N/PE)	U_p	< 1.3 kV
Temporary overvoltage test (TOV) for $t_T = 5 \text{ s (L/N)}$	U _T	387 V
Temporary overvoltage test (TOV) for $t_T = 0.2 \text{ s (N/PE)}$	U _T	1 200 V
Response time (L/N)	t _A	< 25 ns
Response time (N/PE)	t _A	< 100 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

Lightning and surge arresters T1+T2



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	IEC 61643-11:2011
or Booking akan danda	UL 94
pplication standards	
otection against lightning	IEC 62305:2010
election and erection of electrical equipment - Switchgear and controlgear	HD 60364-5-53:2022
election and application principles for SPDs connected to low-voltage power systems	CLC/TS 61643-12:2009
dering, packaging and additional data	
ass m	280 g
ass (including the packaging) m	294 g
ckaging dimensions (H x W x D)	45 x 102 x 74 mm
ckaging value V	0.34 dm ³
TIM group	EG000021
TIM class	EC001457
istoms tariff no.	85363010
NN code	8590681113561
t. number	10 302

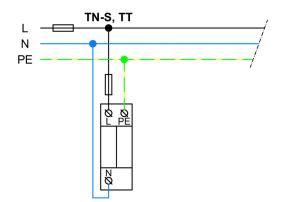


The link in the QR code leads to the online presentation of the **HLSA12,5-320/1+1**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit **www.hakel.com**





Application wiring diagram (installation)



Internal diagram

