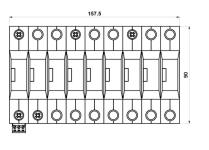
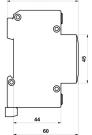




## HLSA7-720/3+0 S

- 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 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		HLSA7-720/3+0 S
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T1, T2
System		TN-C
Number of poles		3
Rated operating AC voltage	U <sub>N</sub>	600 V
Maximum continuous operating voltage AC	U <sub>c</sub>	720 V
Maximum discharge current (8/20)	I <sub>max</sub>	50 kA
Impulse discharge current for class I test (10/350)	I <sub>imp</sub>	7 kA
Charge	Q	3.5 As
Specific energy for class I test	W/R	12.25 kJ/Ω
Total discharge current (10/350) L1+L2+L3->PEN	I <sub>Total</sub>	21 kA
Total discharge current (8/20) L1+L2+L3->PEN	I <sub>Total</sub>	150 kA
Nominal discharge current for class II test (8/20)	l <sub>n</sub>	25 kA
Open circuit voltage of the combination wave generator	U <sub>oc</sub>	6 kV
Voltage protection level at In	Up	< 2.6 kV
Temporary overvoltage test (TOV) for $t_T = 5 s$	UT	875 V
Response time	t <sub>A</sub>	< 25 ns
Maximal back-up fuse		160 A gL/gG
Short-circuit current rating at maximum back-up fuse	I <sub>SCCR</sub>	60 kA <sub>rms</sub>
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 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)		$1.5 \div 25 \text{ mm}^2$
Clamp fastening range (stranded conductor)		$1.5 \div 16 \text{ mm}^2$



Туре		HLSA7-720/3+0 S
Tightening moment		3 Nm
Installation		On DIN rail 35 mm
Modular width		9 TE
Operating position		Any
Signalling at the device		Optic
Importance of local signaling		OK – clear target FAULT – red target
Remote signalling		Yes
Potential free signal contact (S) (recommended cross-section of remote monitoring max. 1 mm <sup>2</sup> )		AC: 250 V / 1.5 A, DC: 250 V / 0.1 A
Modular design		No
Lifetime		> 100 000 h
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	1.011 kg
Mass (including the packaging)	m	1.055 kg
Packaging dimensions (H x W x D)		71 x 177 x 106 mm
Packaging value	V	1.33 dm <sup>3</sup>
ETIM group		EG000021
ETIM class		EC001457
Customs tariff no.		85363010
EAN code		8590681169551
Art. number		10 609

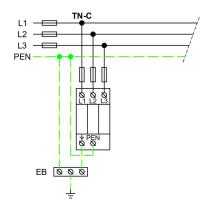


**The link in the QR code** leads to the online presentation of the **HLSA7-720/3+0 S**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit **www.hakel.com** 





## Application wiring diagram (installation)



Internal diagram

