

HLA50-440/3+0 S

- Lightning 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.
- Products contain multiple 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.
- If the product contains two PE (or PEN) terminals, it must not be used as a PE (PEN) bridge.
- **LED** indication specifies a version with LED fault signalisation.
- **S** indication specifies a version with remote monitoring and LED fault signalisation.

Type		HLA50-440/3+0 S
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T1
System		TN-C
Number of poles		3
Rated operating AC voltage	U_N	400 V
Maximum continuous operating voltage AC	U_C	440 V
Impulse discharge current for class I test (10/350)	I_{imp}	50 kA
Charge	Q	25 As
Specific energy for class I test	W/R	625 kJ/Ω
Total discharge current (10/350) L1+L2+L3->PEN	I_{Total}	150 kA
Nominal discharge current for class II test (8/20)	I_n	50 kA
Voltage protection level at I_{imp}	U_p	< 2.5 kV
Temporary overvoltage test (TOV) for $t_T = 5$ s	U_T	581 V
Temporary overvoltage test (TOV) for $t_T = 120$ min	U_T	762 V
Response time	t_A	< 100 ns
Maximal back-up fuse		500 A gL/gG
Short-circuit current rating at maximum back-up fuse	I_{SCCR}	3 kA _{rms}
Follow current interrupt rating	I_{fi}	3 kA _{rms}
Lightning protection zone		LPZ 0-1, LPZ 1-2
Housing material		Polyamid PA6, UL94 V-0
Degree of protection		IP20
Operating temperature	ϑ	-40 ÷ 70 °C
Humidity range	RH	5 ÷ 95 %
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)
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

Type	HLA50-440/3+0 S	
Modular width	6 TE	
Operating position	Any	
Product placement environment	Internal	
Signalling at the device	Optic	
Importance of local signaling	OK – green light on FAULT – red light on	
Remote signalling	Yes	
Potential free signal contact (S) (recommended cross-section of remote monitoring max. 1 mm ²)	AC: 250 V / 0.5 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	735 g
Mass (including the packaging)	m	779 g
Packaging dimensions (H x W x D)	71 x 177 x 106 mm	
Packaging value	V	1.33 dm ³
ETIM group	EG000021	
ETIM class	EC000381	
Customs tariff no.	85363010	
EAN code	8590681114759	
Art. number	10 959	

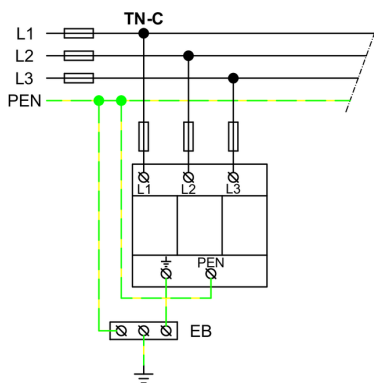


The link in the QR code leads to the online presentation of the **HLA50-440/3+0 S**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit www.hakil.com



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Application wiring diagram (installation)



Internal diagram

