

HSA-850/1+1

- Surge arresters type T2+T3 ensure the equipotential bonding and reduce switching, induced and residual overvoltage in LV power supply systems.
- 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.
- Installed at the boundaries of LPZ 1 LPZ 3 into subsidiary switchboards and control panels.
- 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.

HSA-850/1+1	
T2, T3	
TN-S, TT	
2	
720 V	U_N
850 V	U _c
40 kA	I _{max}
15 kA	I _n
6 kV	U _{oc}
50 kA	I _{Total}
< 3.3 kV	U_p
< 1.3 kV	U_p
< 2.5 kV	U_p
20 kA	I _{imp}
1 045 V	U _T
1 372 V	U_{T}
1 200 V	U _T
< 25 ns	t _A
< 100 ns	t _A
160 A gL/gG	
≤ 5 µA	I _{PE}
60 kA _{rms}	I _{SCCR}
0.1 kA _{rms}	I _{fi}
LPZ 1-2, LPZ 2-3	
Polyamid PA6, UL94 V-0	
IP20	
-40 ÷ 70 °C	Э
5 ÷ 95 %	RH
2.5 mm² (L, N) 6 mm² (PE, PEN)	S



Туре		HSA-850/1+1
Clamp fastening range (solid conductor)		1.5 ÷ 25 mm ²
Clamp fastening range (stranded conductor)		1.5 ÷ 16 mm ²
Tightening moment		3 Nm
Installation		On DIN rail 35 mm
Modular width		2 TE
Operating position		Any
Product placement environment		Internal
Signalling at the device		Optic
Importance of local signaling		OK – clear target FAULT – red target
Remote signalling		No
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	262 g
Mass (including the packaging)	m	276 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		EC000941
Customs tariff no.		85363010
EAN code		8590681115855
Art. number		24 614

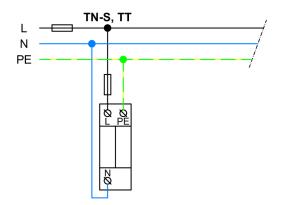


The link in the QR code leads to the online presentation of the **HSA-850/1+1**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit **www.hakel.com**





Application wiring diagram (installation)



Internal diagram

