

HSA-600/2+1 IT

- Surge arresters type T2 ensure the equipotential bonding and reduce switching, induced and residual overvoltage in single-phase and three-phase IT power supply systems.
 - The products consist of varistors with big discharge ability with gas discharge tube, which ensures zero leakage current in the PE conductor.
- Installed at the boundaries of zones LPZ 1 – LPZ 2 into subsidiary switchboards and control panels.
 - **S** indication specifies a version with remote monitoring.

Type		HSA-600/2+1 IT
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T2
System		IT
Number of poles		3
Nominal line voltage	U_N	500 V
Maximum continuous operating voltage AC	U_C	600 V
Maximum discharge current (8/20) L/CP	I_{max}	40 kA
Nominal discharge current for class II test (8/20) L/CP	I_n	15 kA
Open circuit voltage of the combination wave generator	U_{OC}	6 kV
Total discharge current (8/20) L1+L2+CP->PE	I_{Total}	50 kA
Voltage protection level at I_n (CP/PE)	U_p	< 1.5 kV
Voltage protection level at I_n (L/CP)	U_p	< 2.1 kV
Voltage protection level at U_{OC} (L/CP)	U_p	< 1.7 kV
Temporary overvoltage test (TOV) for $t_T = 5$ s (L/CP)	U_T	726 V
Temporary overvoltage test (TOV) for $t_T = 0.2$ s (L/PE)	U_T	1 750 V
Response time (L/CP)	t_A	< 25 ns
Response time (CP/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 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 T2	S	2.5 mm ² (L, N) 6 mm ² (PE, PEN)
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		3 TE
Operating position		Any

Type		HSA-600/2+1 IT
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	299 g
Mass (including the packaging)	m	323 g
Packaging dimensions (H x W x D)		60 x 113 x 73 mm
Packaging value	V	0.5 dm ³
ETIM group		EG000021
ETIM class		EC000941
Customs tariff no.		85363010
EAN code		8590681170038
Art. number		27 578

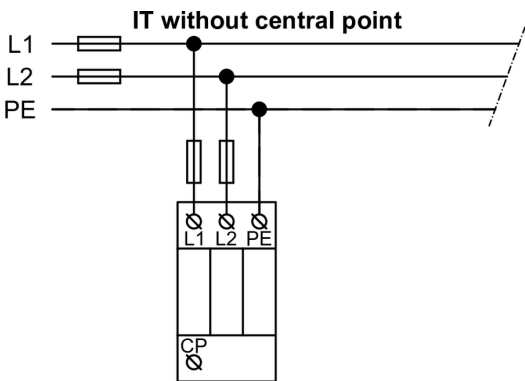


The link in the QR code leads to the online presentation of the **HSA-600/2+1 IT**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit www.hakil.com



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Application wiring diagram (installation)



Internal diagram

