

HSA A-1P CYA

- Surge arresters type T3 intended for use in installation and floor boxes and cable trays.
- Additional protection of socket circuits supplying devices with sensitive electronics.
- Additional protection of industrial socket circuits equipped with surge protection and a high-frequency filter (HSAF, HSAF3).
- Installed at the boundaries of LPZ 2 – LPZ 3, as close as possible to the protected device (no further than 5 m).
- In front of HSA A-1P must be installed a lightning current and surge arrester T1 and T2 from HAKEL company.
- The protection devices offer a high discharge capacity in the surge arrester category T3, with U_{OC} 6 kV / I_n 3 kA.

Type		HSA A-1P CYA
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T3
Number of poles		2
Rated operating AC voltage	U_N	230 V
Maximum continuous operating voltage AC	U_C	275 V
Open circuit voltage of the combination wave generator (L/N, L/PE)	U_{OC}	6 kV
Open circuit voltage of the combination wave generator (N/PE)	U_{OC}	10 kV
Voltage protection level at U_{OC} (L/N)	U_p	< 1 kV
Voltage protection level at U_{OC} (L/PE, N/PE)	U_p	< 1.3 kV
Nominal discharge current for class II test (8/20) L/N, L/PE	I_n	3 kA
Nominal discharge current for class II test (8/20) N/PE	I_n	5 kA
Temporary overvoltage test (TOV) for $t_T = 5$ s (L/N)	U_T	337 V
Temporary overvoltage test (TOV) for $t_T = 120$ min (L/N)	U_T	440 V
Temporary overvoltage test (TOV) for $t_T = 0.2$ s (N/PE)	U_T	1 200 V
Response time (L/N)	t_A	< 25 ns
Response time (L/PE, N/PE)	t_A	< 100 ns
Maximal back-up fuse		16 A gL/gG
Residual current	I_{PE}	$\leq 5 \mu A$
Lightning protection zone		LPZ 2-3
Housing material		Polyamid PA6, UL94 V-0
Degree of protection		IP20
Operating temperature	θ	$-40 \div 70$ °C
Humidity range	RH	$5 \div 95$ %
SPD cable outlet type		Slaněný vodič CYA
Recommended cross-section of connected conductors	S	2.5 mm^2
Installation		In the installation box, For window sill gutter 45 x 45 mm
Operating position		Any
Product placement environment		Internal

Type		HSAA-1P CYA
Signalling at the device		Acoustic
Importance of local signalling		OK – no piezo siren FAULT – piezo siren sound
Remote signalling		No
Includes EMI / EMC filter		No
Pluggable version		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	16 g
Mass (including the packaging)	m	27 g
Packaging dimensions (H x W x D)		26 x 98 x 73 mm
Packaging value	V	0.19 dm ³
ETIM group		EG000021
ETIM class		EC000942
Customs tariff no.		85363010
EAN code		8590681117163
Art. number		32 007

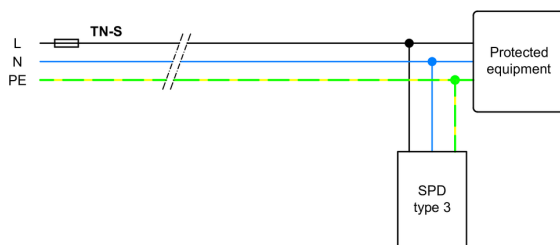


The link in the QR code leads to the online presentation of the **HSAA-1P CYA**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit www.hakel.com



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Application wiring diagram (installation)



Internal diagram

