

HSAF10/6VDC S

- Two-port surge arresters type T3 with high-frequency filters for serial connection.
 - Intended for protection of electronic appliances against the effects of switching, induced and residual overvoltage in DC power supply systems.
 - Contain an improved thermal fuse, which ensures timely disconnection of HSAF*VDC S from the power grid during the MOV's overheating and thus prevents damage to the HSAF*VDC S.
- Installed at the boundaries of LPZ 2 – LPZ 3, as close to the device to be protected as possible (no further than 5 m).
 - In front of HSAF*VDC S must be installed a lightning current and surge arrester T1 and T2 from HAKEL company.
 - **S** indication specifies a version with remote monitoring.

Type		HSAF10/6VDC S
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T3
System		DC
Rated operating DC voltage	U_N	6 V
Maximum continuous operating voltage DC	U_C	7.2 V
Rated load current	I_L	10 A
Open circuit voltage of the combination wave generator (+/-, ±/PE)	U_{OC}	4 kV
Voltage protection level at U_{OC} (+/-)	U_p	< 0.35 kV
Voltage protection level at U_{OC} (±/PE)	U_p	< 0.3 kV
Nominal discharge current for class II test (8/20) +/-, ±/PE	I_n	2 kA
Total discharge current (8/20) ±->PE	I_{Total}	4 kA
Asymmetrical attenuation of filter at $f = 4$ MHz		> 80 dB
Asymmetrical attenuation of filter at $f = 0.15 \div 30$ MHz		> 35 dB
Response time (+/-)	t_A	< 25 ns
Response time (±/PE)	t_A	< 100 ns
Power dissipation	P_z	< 2.2 W
Maximal back-up fuse		10 A gL/gG
Residual current	I_{PE}	≤ 1 800 µA
Short-circuit current rating at maximum back-up fuse	I_{SCCR}	6 kA _{rms}
Lightning protection zone		LPZ 2-3
Housing material		Polyamid PA6, UL94 V-0
Degree of protection		IP20
Operating temperature	θ	-40 ÷ 55 °C
Humidity range	RH	5 ÷ 95 %
Recommended cross-section of connected conductors	S	1.5 mm ²
Clamp fastening range (solid conductor)		0.2 ÷ 6 mm ²
Clamp fastening range (stranded conductor)		0.2 ÷ 4 mm ²
Tightening moment		1,2 Nm
Installation		On DIN rail 35 mm

Type		HSAF10/6VDC S
Modular width		4 TE
Operating position		Any
Product placement environment		Internal
Signalling at the device		Optic
Importance of local signaling		OK – red light off 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 / 1.5 A, DC: 250 V / 0.1 A
Includes EMI / EMC filter		Yes
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
Methods of measurement of the suppression characteristics of passive EMC filtering devices		EN 55017:2011 / CISPR 17:2011
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	180 g
Mass (including the packaging)	m	204 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		EC000942
Customs tariff no.		85363010
EAN code		8590681161593
Art. number		30 267

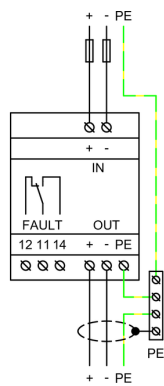


The link in the QR code leads to the online presentation of the **HSAF10/6VDC S**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit www.hakil.com



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Application wiring diagram (installation)



Internal diagram

