

HSAF10/200VDC 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.

Туре		HSAF10/200VDC S
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		Т3
System		DC
Rated operating DC voltage	U_N	200 V
Maximum continuous operating voltage DC	U _c	240 V
Rated load current	IL	10 A
Open circuit voltage of the combination wave generator (+/-, ±/PE)	U _{oc}	6 kV
Voltage protection level at U _{OC} (+/-)	U_{p}	< 1.3 kV
Voltage protection level at U _{oc} (±/PE)	U_p	< 0.8 kV
Nominal discharge current for class II test (8/20) +/-, ±/PE	In	3 kA
Total discharge current (8/20) ±->PE	I _{Total}	6 kA
Asymmetrical attenuation of filter at f = 4 MHz		> 80 dB
Asymmetrical attenuation of filter at $f = 0.15 \div 30 \text{ MHz}$		> 35 dB
Response time (+/-)	t _A	< 25 ns
Response time (±/PE)	t _A	< 100 ns
Power dissipation	Pz	< 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	Э	-40 ÷ 55 °C
Humidity range	RH	5 ÷ 95 %
Recommended cross-section of connected conductors	S	1.5 mm ²
Clamp fastening range (solid conductor)		$0.2 \div 6 \text{ mm}^2$
Clamp fastening range (stranded conductor)		0.2 ÷ 4 mm ²
Tightening moment		1,2 Nm
Installation		On DIN rail 35 mm

Surge arresters T3 with EMI/RFI filter for DC systems



Operating position Any Product placement environment Internal Signalling at the device Optic Importance of local signaling CK - red light off FAULT - red light on FAULT - red li	Туре		HSAF10/200VDC S
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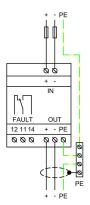


The link in the QR code leads to the online presentation of the **HSAF10/200VDC S**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit **www.hakel.com**





Application wiring diagram (installation)



Internal diagram

