

HSAF32 S

- Two-stage 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 generated in LV power supply systems.
- Contain an improved thermal fuse, which ensures timely disconnection of HSAF* S from the power grid during the MOV's overheating and thus prevents damage to the HSAF* 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* 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		HSAF32 S
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		Т3
System		TN-C-S, TN-S
Number of poles		2
Rated operating AC voltage	U_N	230 V
Maximum continuous operating voltage AC	U _c	275 V
Rated load current	IL	32 A
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	< 0.8 kV
Voltage protection level at U _{oc} (L/PE)	U_p	< 1.5 kV
Voltage protection level at U _{oc} (N/PE)	U_p	< 1.2 kV
Nominal discharge current for class II test (8/20) L/N, L/PE	In	3 kA
Nominal discharge current for class II test (8/20) N/PE	In	5 kA
Total discharge current (8/20) L+N->PE	l _{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
Temporary overvoltage test (TOV) for $t_T = 5 \text{ s (L/N)}$	U _T	337 V
Temporary overvoltage test (TOV) for $t_T = 120 \text{ min (L/N)}$	U_T	440 V
Temporary overvoltage test (TOV) for $t_T = 0.2 \text{ s}$ (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
Power dissipation	Pz	< 4 W
Maximal back-up fuse		32 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

Surge arresters T3 with EMI/RFI filter for AC systems



Operating temperature 9 -40 + 55 °C Humidity range RH 5 + 95 % Recommended cross-section of connected conductors S 6 mm² Clamp fastening range (solid conductor) 2.5 + 16 mm² Clamp fastening range (stranded conductor) 2.5 + 10 mm² Unplant of the proper of the prop	Туре		HSAF32 S
Recommended cross-section of connected conductors Clamp fastening range (solid conductor) Clamp fastening range (solid conductor) Tightening moment Installation Modular width Operating position Any Product placement environment Signalling at the device Importance of local signaling Remote signalling Remote signalling Remote signal contact (S) (recommended cross-section of remote monitoring max. 1 mm²) Includes EMI / EMC filter Position Reducts EMI / EMC filter Pesigned according to standards Requirements and test methods for SPDs connected to low-voltage power systems Reflection and against lightning Safety of Flammability of Plastic Materials UL 94 Application standards Protection against lightning Selection and erection of electrical equipment – Switchgear and controlgear Ass (including the packaging) Mass (including the packaging) Mass (including the packaging) Mass (including the packaging) Mass (including the packaging) Packaging value V	Operating temperature	Э	-40 ÷ 55 °C
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Clamp tastening range (stranded conductor)	Recommended cross-section of connected conductors	S	6 mm²
Installation	Clamp fastening range (solid conductor)		2.5 ÷ 16 mm ²
Installation On DIN rail 35 mm Modular width 4 TE Operating position Any Product placement environment Internal Signalling at the device Optic Importance of local signaling TeAULT - red light off FAULT - red light on	Clamp fastening range (stranded conductor)		2.5 ÷ 10 mm ²
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Signalling at the device Optic Importance of local signaling OK - red light off FAULT - red light of FAULT - red light off FAULT - r	Operating position		Any
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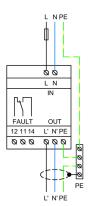


The link in the QR code leads to the online presentation of the **HSAF32 S**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit **www.hakel.com**





Application wiring diagram (installation)



Internal diagram

