

HSAF16 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		HSAF16 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	16 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	< 0.75 kV
Voltage protection level at U _{oc} (L/PE)	U_p	< 1 kV
Voltage protection level at U _{oc} (N/PE)	U_p	< 1.5 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	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
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	< 3.5 W
Maximal back-up fuse		16 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 2.5 mm² Clamp fastening range (solid conductor) 0.2 ÷ 6 mm² Clamp fastening range (solid conductor) 0.2 ÷ 4 mm² Clamp fastening range (solid conductor) 0.2 ÷ 4 mm² Clamp fastening range (solid conductor) 0.2 ÷ 4 mm² Clamp fastening range (solid conductor) 0.2 ÷ 4 mm² Clamp fastening range (solid conductor) 0.2 ÷ 4 mm² Installation On DIN rall 35 mm Modular width 3 TE Operating position Any Product placement environment Internal Importance of local signaling OPIc control of the cell signaling Remote signalling Yes Potential free signal contact (\$) (recommended cross-section of remote monitoring max. 1 mm²) AC: 250 V/ 1.5 A, DC: 250 V/ 1.5 A Remote signalling AC: 250 V/ 1.5 A, DC: 250 V/ 1.5 A Yes Modular design No No Lifetime > 100 000 h No Designed according to standards <t< th=""><th>Туре</th><th></th><th>HSAF16 S</th></t<>	Туре		HSAF16 S
Recommended cross-section of connected conductors 0.2 ÷ 6 mm²	Operating temperature	Э	-40 ÷ 55 °C
Clamp tastening range (solid conductor) 0.2 ÷ 6 mm² Clamp fastening range (stranded conductor) 0.2 ÷ 4 mm² Tightening moment 0,5 Nm Installation On DIN rail 35 mm Modular width 3 TE Operating position Any Product placement environment Internal Signalling at the device Optic Importance of local signaling K real light off FAULT - red light on Remote signalling Yes Potential free signal contact (S) (recommended cross-section of remote monitoring max. 1 mm²) AC: 250 V / 1.5 A, DC: 250 V / 0.1 A Includes EMI / EMC filter Yes Modular design No Lifetime Yes Designed according to standards IEC 61643-11:2011 Requirements and lest 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 UL 94 Safety of Flammability of Plastic Materials UL 94 Application standards Protection against lightning IEC 62305:2010 Selection and application principles for SPDs con	Humidity range	RH	5 ÷ 95 %
Clamp tastening range (stranded conductor) 0.2 ÷ 4 mm² Tightening moment 0,5 km Installation On DIN rail 35 mm Modular width 3 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 FAULT - red light on Pault - red light o	Recommended cross-section of connected conductors	S	2.5 mm ²
Tightening moment 0,5 Nm 0 0 0 0 0 0 0 0 0	Clamp fastening range (solid conductor)		0.2 ÷ 6 mm ²
Installation	Clamp fastening range (stranded conductor)		0.2 ÷ 4 mm ²
Modular width 3 TE Operating position Any Product placement environment Internal Signalling at the device Optic Importance of local signaling OK - red light off Remote signalling Yes Potential free signal contact (S) (recommended cross-section of remote monitoring max. 1 mm²) 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 IEC 61643-11:2011 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 UL 94 Safety of Flammability of Plastic Materials UL 94 Application standards UL 94 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 m 184 g Ma	Tightening moment		0,5 Nm
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Product placement environment Signalling at the device Importance of local signaling Importance of local signaling OK - red light off FAULT - red light on F	Modular width		3 TE
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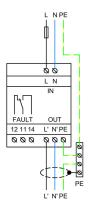


The link in the QR code leads to the online presentation of the **HSAF16 S**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit **www.hakel.com**





Application wiring diagram (installation)



Internal diagram

