


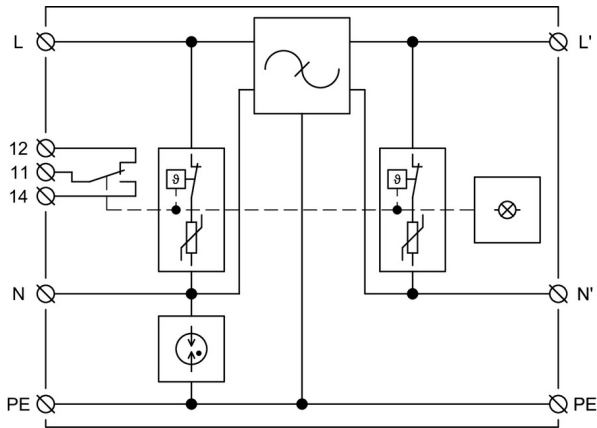
HSAF125 S

- 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 LV power supply systems.
- Contains an improved thermal fuse, which ensures timely disconnection of HSAF* S a HSAF3*S from the power grid during the MOV's overheating and thus prevents damage to the HSAF* S a HSAF3*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 a HSAF3*S must be installed a lightning current and surge arrester T1 and T2 from HAKEL company.
- Mounted on the main board of a switchboard using four screws.
- **S** indication specifies a version with remote monitoring.

Type	HSAF125 S	
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)	T3	
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	I_L	125 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	< 0.85 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	I_n	3 kA
Nominal discharge current for class II test (8/20) N/PE	I_n	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 $f = 0,15 \div 30$ MHz	> 40 dB	
Temporary overvoltage test value (TOV) for $t_T = 5$ s (L/N)	U_T	337 V
Temporary overvoltage test value (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
Power dissipation at 20 °C	PZ	< 20 W
Maximal back-up fuse	125 A gL/gG	
Lightning protection zone	LPZ2, LPZ3	
Housing material	Steel plate 1 mm	
Degree of protection	IP20	
Operating temperature	θ	-40 ÷ 55 °C
Recommended cross-section of connected conductors	S	35 mm ²
Clamp fastening range (solid conductor)	1.5 ÷ 50 mm ²	

Type		HSAF125 S
Clamp fastening range (stranded conductor)		1.5 ÷ 35 mm ²
Tightening moment		10 Nm
Installation		Using the M4 screws on the chassis
Operating position		Any
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
Application standards		
Protection against lightning		IEC 62305:2010
Selection and erection of electrical equipment – Devices for protection against transient overvoltages		HD 60364-5-534:2016
Selection and application principles for SPDs connected to low-voltage power systems		IEC 61643-12:2008
Ordering, packaging and additional data		
Mass	m	1.78 kg
Mass (including the packaging)	m	1.862 kg
Packaging dimensions (H x W x D)		260 x 87 x 154 mm
Packaging value	V	3.48 dm ³
ETIM group		EG000021
ETIM class		EC000942
Customs tariff no.		85363030
EAN code		 8590681116951
Art. number		30 176

Internal diagram



Application wiring diagram (installation)

