

HSAF3/63 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 and HSAF3*S from the power grid during the MOV's overheating and thus prevents damage to the HSAF* S and 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 and 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.

Туре		HSAF3/63 S
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		Т3
System		TN-C-S, TN-S
Number of poles		4
Rated operating AC voltage	U_N	230 V
Maximum continuous operating voltage AC	U _c	275 V
Rated load current	ار	63 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)	Up	< 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) L1+L2+L3+N->PE	I _{Total}	12 kA
Asymmetrical attenuation of filter at f = 4 MHz		> 80 dB
Asymmetrical attenuation of filter at f = 0.15 ÷ 30 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	< 12 W
Maximal back-up fuse		63 A gL/gG
Residual current	I _{PE}	≤ 5 µA
Lightning protection zone		LPZ 2-3
Housing material		Steel plate 1 mm
Degree of protection		IP20
Operating temperature	θ	-40 ÷ 55 °C

Surge arresters T3 with EMI/RFI filter for AC systems



Humidity range RH 5 - 95 % Recommended cross-section of connected conductors S 16 mm² Clamp fastening range (solid conductor) 2.5 + 35 mm² Clamp fastening range (solid conductor) 2.5 + 25 mm² Clamp fastening range (stranded conductor) 2.5 + 25 mm² Tightening moment 3 Nm Installation Using the M4 screws on the chassis Operating position Any Product placement environment Internal Signalling at the device Optic Importance of local signalling CK - red light off FAULT - red light off FAUL	Туре		HSAF3/63 S
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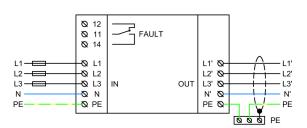


The link in the QR code leads to the online presentation of the **HSAF3/63 S**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit **www.hakel.com**





Application wiring diagram (installation)



Internal diagram

