



HSAD16/110VDC S

- Two-port surge arresters type T3 for serial connection.
- Intended for protection of electronic appliances against the effects of switching, induced and residual overvoltage in DC power supply systems.
- Contains an improved thermal fuse which ensures timely disconnection of the device from the power grid during overheating and thus prevents damage.
- Activation of the thermal fuse is signalled by an integral indicator light.

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- Installed at the boundaries of LPZ 2 LPZ 3, as close as possible to the protected device (no further than 5 m).
- In front of HSAD16/*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.

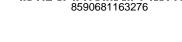
Туре		HSAD16/110VDC S
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		Т3
System		DC
Rated operating DC voltage	U _N	110 V
Maximum continuous operating voltage DC	U _c	132 V
Rated load current	١ _L	16 A
Open circuit voltage of the combination wave generator	U _{oc}	6 kV
Voltage protection level at U _{oc} (+/-)	Up	< 0.5 kV
Voltage protection level at U_{OC} (±/PE)	Up	< 0.8 kV
Nominal discharge current for class II test (8/20)	I _n	3 kA
Total discharge current (8/20) ±->PE	I _{Total}	6 kA
Response time (+/-)	t _A	< 25 ns
Response time (±/PE)	t _A	< 100 ns
Maximal back-up fuse		16 A gL/gG
Residual current	I _{PE}	≤ 5 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	e	-40 ÷ 55 °C
Humidity range	RH	5 ÷ 95 %
Recommended cross-section of connected conductors	S	2.5 mm ²
Clamp fastening range (solid conductor)		$0.2 \div 6 \text{ mm}^2$
Clamp fastening range (stranded conductor)		$0.2 \div 4 \text{ mm}^2$
Tightening moment		0,5 Nm
Installation		On DIN rail 35 mm
Modular width		3 TE
Operating position		Any



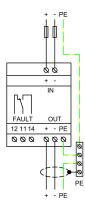
Туре		HSAD16/110VDC S
Product placement environment		Internal
Signalling at the device		Optic
Importance of local signaling		OK – red light off FAULT – red light on
Remote signalling		Yes
Potential free signal contact (S) (recommended cross-section of remote monitoring max. 1 $\mbox{mm}^2\mbox{)}$		AC: 250 V / 1.5 A, DC: 250 V / 0.1 A
Includes EMI / EMC filter		No
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
Safety of Flammability of Plastic Materials		UL 94
Application standards		
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		
Mass	m	95 g
Mass (including the packaging)	m	119 g
Packaging dimensions (H x W x D)		60 x 113 x 73 mm
Packaging value	V	0.5 dm ³
ETIM group		EG000021
ETIM class		EC000942
Customs tariff no.		85363010
EAN code		8590681163276
Art. number		30 292



The link in the QR code leads to the online presentation of the **HSAD16/110VDC 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

