

HSAD16/24VDC 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.
- 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.

Type		HSAD16/24VDC S
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T3
System		DC
Rated operating DC voltage	U_N	24 V
Maximum continuous operating voltage DC	U_C	28.8 V
Rated load current	I_L	16 A
Open circuit voltage of the combination wave generator	U_{OC}	4 kV
Voltage protection level at U_{OC} (+/-)	U_p	< 0.25 kV
Voltage protection level at U_{OC} (\pm /PE)	U_p	< 0.6 kV
Nominal discharge current for class II test (8/20)	I_n	2 kA
Total discharge current (8/20) \pm ->PE	I_{Total}	4 kA
Response time (+/-)	t_A	< 25 ns
Response time (\pm /PE)	t_A	< 100 ns
Maximal back-up fuse		16 A gL/gG
Lightning protection zone		LPZ2, LPZ3
Housing material		Polyamid PA6, UL94 V-0
Degree of protection		IP20
Operating temperature	θ	-40 ÷ 55 °C
Recommended cross-section of connected conductors	S	2.5 mm ²
Clamp fastening range (solid conductor)		0.2 ÷ 6 mm ²
Clamp fastening range (stranded conductor)		0.2 ÷ 4 mm ²
Tightening moment		0,5 Nm
Installation		On DIN rail 35 mm
Modular width		3 TE
Operating position		Any
Signalling at the device		Optic
Importance of local signaling		OK – red light off FAULT – red light on
Remote signalling		Yes

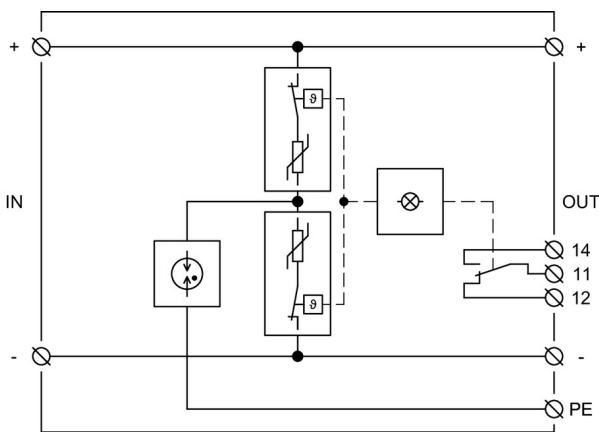
Type		HSAD16/24VDC S
Potential free signal contact (S) (recommended cross-section of remote monitoring max. 1 mm ²)		AC: 250 V / 1,5 A, DC: 250 V / 0,1 A
Includes EMI / EMC filter		No
Modular design		No
Lifetime		> 100 000 h
Designed according to standards		
Requirements and test methods for SPDs connected 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 – 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	95 g
Mass (including the packaging)	m	119 g
Packaging dimensions (H x W x D)		113 x 60 x 73 mm
Packaging value	V	0.5 dm ³
ETIM group		EG000021
ETIM class		EC000942
Customs tariff no.		85363010
EAN code		



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Art. number	30 285
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Internal diagram



Application wiring diagram (installation)

