

HSAD-P M S

- Surge arresters type T3 for serial (HSAD-S M S) or parallel (HSAD-P M S) connection.
 - Intended for protection of one-phase electronic appliances against the effects of switching, induced and residual overvoltage generated in LV power supply systems.
 - 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 HSAD-S M S/HSAD-P M S must be installed a lightning current and surge arrester T1 and T2 from HAKEL company.
 - Compact dimensions with a constructional modular width of 1 TE.
 - A type of construction with a removable module.
 - **S** indication specifies a version with remote monitoring.

Type		HSAD-P M 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
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	< 1 kV
Voltage protection level at U_{OC} (L/PE, N/PE)	U_p	< 1.5 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
Temporary overvoltage test (TOV) for $t_T = 5$ s (L/N)	U_T	337 V
Temporary overvoltage test (TOV) for $t_T = 120$ min (L/N)	U_T	440 V
Temporary overvoltage test (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
Maximal back-up fuse		10 A gL/gG
Residual current	I_{PE}	≤ 5 μA
Lightning protection zone		LPZ 2-3
Housing material		Polyamid PA6, UL94 V-0
Degree of protection		IP20
Operating temperature	θ	-40 ÷ 70 °C
Humidity range	RH	5 ÷ 95 %
Recommended cross-section of connected conductors	S	1.5 mm ²
Clamp fastening range (solid conductor)		0.2 ÷ 4 mm ²
Clamp fastening range (stranded conductor)		0.2 ÷ 2.5 mm ²
Tightening moment		0,5 Nm
Installation		On DIN rail 35 mm

Type		HSAD-P M S
Modular width		1 TE
Operating position		Any
Product placement environment		Internal
Signalling at the device		Optic
Importance of local signaling		OK – green light on FAULT – green light off
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		No
Pluggable version		Yes
Article number of spare module		30 390
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	75 g
Mass (including the packaging)	m	86 g
Packaging dimensions (H x W x D)		26 x 98 x 73 mm
Packaging value	V	0.19 dm ³
ETIM group		EG000021
ETIM class		EC000942
Customs tariff no.		85363010
EAN code		8590681173626
Art. number		30 380

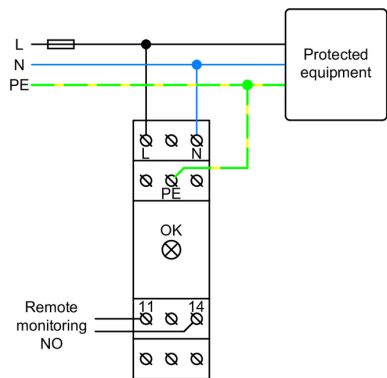


The link in the QR code leads to the online presentation of the **HSAD-P M S**.
There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials.
For more information, visit www.hakil.com



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Application wiring diagram (installation)



Internal diagram

