



## HLSA12,5-275/4+0 M (S)

- Lightning impulse current and surge arresters type T1+T2+T3.
- The products consist of varistors with big discharge ability.
- HLSA12,5 in configurations 1+1, 3+1 and HLSA12,5G are additionally combined with a gas discharge tube which ensures zero leakage current through the PE conductor.
- Suitable for objects with considerable levels of protection LPL III and LPL IV.
- Installed at the boundaries of LPZ 0 – LPZ 1 and higher zones, closest to where overhead line enters the building i.e. in the main distribution boards.
- In case of the installation of a type T1+T2+T3 in the main switchboard, it is also necessary to install type T2 and T3 in any additional distribution boards in the electrical installation.
- If the product contains two PE (or PEN) terminals, it must not be used as a PE (PEN) bridge.
- **M** indication specifies a type of construction with removable module. **S** indication specifies a version with remote monitoring.
- **Designed according to standards** IEC 61643-11:2011; UL 94
- **Application standards** IEC 62305:2010; HD 60364-5-53:2022; CLC/TS 61643-12:2009

Type	HLSA12,5-275/4+0 M, HLSA12,5-275/4+0 M S	
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T1, T2, T3
System		TN-S
Number of poles		4
Rated operating AC voltage	$U_N$	230 V
Maximum continuous operating voltage AC	$U_C$	275 V
Maximum discharge current (8/20)	$I_{max}$	50 kA
Impulse discharge current for class I test (10/350)	$I_{imp}$	12.5 kA
Charge	$Q$	6.25 As
Specific energy for class I test	W/R	39 kJ/Ω
Total discharge current (10/350) L1+L2+L3+N->PE	$I_{Total}$	50 kA
Total discharge current (8/20) L1+L2+L3+N->PE	$I_{Total}$	200 kA
Nominal discharge current for class II test (8/20)	$I_n$	25 kA
Open circuit voltage of the combination wave generator	$U_{OC}$	6 kV
Voltage protection level at $I_n$	$U_p$	< 1.25 kV
Temporary overvoltage test (TOV) for $t_T = 5$ s	$U_T$	337 V
Temporary overvoltage test (TOV) for $t_T = 120$ min	$U_T$	440 V
Maximal back-up fuse		160 A gL/gG
Residual current	$I_{PE}$	≤ 300 μA
Short-circuit current rating at maximum back-up fuse	$I_{SCCR}$	60 kA <sub>rms</sub>
Housing material		Polyamid PA6, UL94 V-0
Degree of protection		IP20
Operating temperature	$\vartheta$	-40 ÷ 70 °C
Humidity range	RH	5 ÷ 95 %
Minimum cross-section of connected Cu conductors accord. to HD 60364-5-53:2022 (doesn't apply to „V“ connection) for T1	S	6 mm <sup>2</sup> (L, N) 16 mm <sup>2</sup> (PE, PEN)
Clamp fastening range (stranded conductor)		1.5 ÷ 16 mm <sup>2</sup>
Installation		On DIN rail 35 mm
Operating position		Any
Importance of local signaling		OK – clear target, FAULT – red target
Potential free signal contact (S) (recommended cross-section of remote monitoring max. 1 mm <sup>2</sup> )		AC: 250 V / 1.5 A, DC: 250 V / 0.1 A
Article number of spare module		16 086
Article number	HLSA12,5-275/4+0 M	16 085
	HLSA12,5-275/4+0 M S	16 095