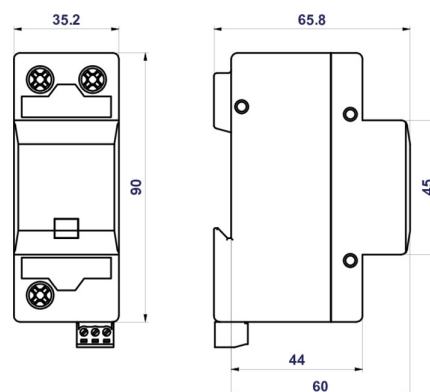




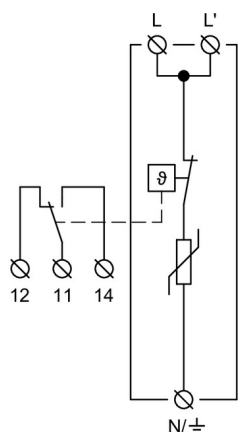
HLSA25-275 S

- Lightning impulse current and surge arresters type T1+T2+T3.
- The products consist of varistors with big discharge ability.
- In 1+1 and 3+1 configurations and HLSA25G 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 I and LPL II.
- 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 1 + 2 + 3 in the main switchboard, it is also necessary to install type 2 and 3 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.
- **S** indication specifies a version with remote monitoring.

Type		HLSA25-275 S
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T1, T2, T3
System		TN
Number of poles		1
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}	25 kA
Charge	Q	12.5 As
Specific energy for class I test	W/R	156 kJ/Ω
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	< 1.2 kV
Temporary overvoltage test value (TOV) for $t_T = 5$ s	U_T	337 V
Response time	t_A	< 25 ns
Maximal back-up fuse		250 A gL/gG
Maximal back-up fuse („V” connection)		125 A gL/gG
Short-circuit current rating at maximum back-up fuse	I_{SCCR}	80 kA _{rms}
Lightning protection zone		LPZ0, LPZ1, LPZ2, LPZ3
Housing material		Polyamid PA6, UL94 V-0
Degree of protection		IP20
Operating temperature	θ	-40 ÷ 70 °C
Minimum cross-section of connected Cu conductors accord. to HD 60364-5-534:2016 (doesn't apply to „V” connection) for T1	S	6 mm ² (L, N) 16 mm ² (PE, PEN)
Minimum cross-section of connected Cu conductors accord. to HD 60364-5-534:2016 (doesn't apply to „V” connection) for T2	S	2,5 mm ² (L, N) 6 mm ² (PE, PEN)
Clamp fastening range (solid conductor)		2.5 ÷ 35 mm ²
Clamp fastening range (stranded conductor)		2.5 ÷ 25 mm ²

Type		HLSA25-275 S
Tightening moment		3 Nm
Installation		On DIN rail 35 mm
Modular width		2 TE
Operating position		Any
Signalling at the device		Optic
Importance of local signaling		OK – clear target FAULT – red target
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
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	283 g
Mass (including the packaging)	m	297 g
Packaging dimensions (H x W x D)		102 x 45 x 74 mm
Packaging value	V	0.34 dm ³
ETIM group		EG000021
ETIM class		EC001457
Customs tariff no.		85363010
EAN code		 8590681114216
Art. number		10 456

Internal diagram



Application wiring diagram (installation)

