

HLSA25G-255 S

- Lightning impulse current and surge arresters type T1+T2+T3.
- The products consist of varistors with big discharge ability.
- HLSA25 in configurations 1+1, 3+1 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 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.
- **S** indication specifies a version with remote monitoring.

| Type | | HLSA25G-255 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 | 255 V |
| Rated load current for „V“ connection | I_L | 125 A |
| 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 | < 1.25 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 |
| Response time | t_A | < 100 ns |
| Maximal back-up fuse | | 250 A gL/gG |
| Maximal back-up fuse („V“ connection) | | 125 A gL/gG |
| Residual current | I_{PE} | ≤ 5 μA |
| Short-circuit current rating at maximum back-up fuse | I_{SCCR} | 80 kA _{rms} |
| Lightning protection zone | | LPZ 0-1, LPZ 1-2, 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 % |
| 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 ² (L, N) |
| | | 16 mm ² (PE, PEN) |

| Type | | HLSA25G-255 S |
|---|---|---|
| Minimum cross-section of connected Cu conductors accord. to HD 60364-5-53:2022 (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 |
| Tightening moment | | 3 Nm |
| Installation | | On DIN rail 35 mm |
| Modular width | | 2 TE |
| Operating position | | Any |
| Product placement environment | | Internal |
| 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 |
| Pluggable version | | 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 | 263 g |
| Mass (including the packaging) | m | 277 g |
| Packaging dimensions (H x W x D) | | 45 x 102 x 74 mm |
| Packaging value | V | 0.34 dm ³ |
| ETIM group | | EG000021 |
| ETIM class | | EC001457 |
| Customs tariff no. | | 85363010 |
| EAN code | | 8590681114315 |
| Art. number | | 10 466 |

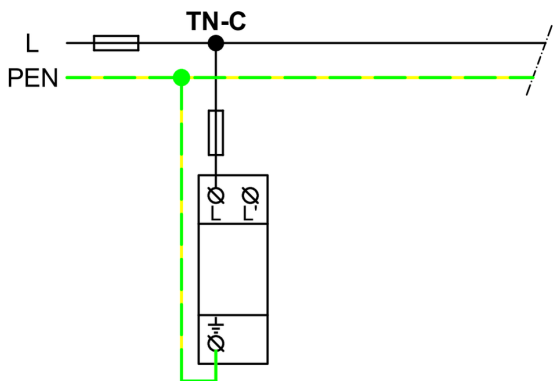


The link in the QR code leads to the online presentation of the **HLSA25G-255 S**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit www.hakil.com



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Application wiring diagram (installation)



Internal diagram

