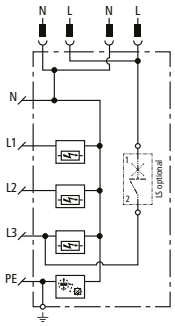
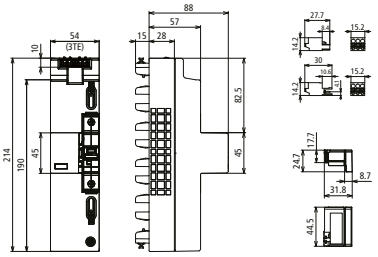
# DSH ZP 2 LSG A TT 255 (909 231)

- Type 1 + type 2 + type 3 combined arrester based on spark gap technology, meets the minimum requirements of IEC 60364-5-53 clause 534 for the nominal discharge current capacity $I_n$ and the lightning current discharge capacity $I_{imp}$ in case of overhead line supply
- Easy, fast and completely toolless installation by snapping the arrester on 40 mm busbar systems
- Capable of protecting terminal equipment
- Includes a 230 V power supply (N and L) for the compartment for additional applications / termination point meter mounting board according to VDE-AR-N 4100
- Includes a single-pole B6 circuit breaker for power supply
- A sealable protective cover and 2 x sockets and 2 x plugs for easy wiring of the intelligent measuring system are included in delivery






Basic circuit diagram



Dimension drawing

Combined arrester for TT and TN-S systems for use in the main power supply system (3+1 configuration) of buildings with external lightning protection (class of LPS III/IV).

| **Type** | **DSH ZP 2 LSG A TT 255** |
|---|---|
| **Part No.** | **909 231** |
| SPD according to EN 61643-11 / IEC 61643-11 | type 1 + type 2 + type 3 / class I + class II + class III |
| Energy coordination with terminal equipment (≤ 10 m) | type 1 + type 2 + type 3 |
| Nominal voltage (a.c.) ($U_N$) | 230 / 400 V (50 / 60 Hz) |
| Max. continuous operating voltage (AC) ($U_C$) | 255 V (50 / 60 Hz) |
| Lightning impulse current (10/350 µs) [L1+L2+L3+N-PE] ($I_{total}$) | 50 kA |
| Lightning impulse current (10/350 µs) [L-N] ($I_{imp}$) | 12.5 kA |
| Specific energy [L-N] (W/R) | 39.06 kJ/Ohm |
| Lightning impulse current (10/350 µs) [N-PE] ($I_{imp}$) | 50 kA |
| Specific energy [N-PE] (W/R) | 625 kJ/Ohm |
| Nominal discharge current (8/20 µs) [L-N]/[N-PE] ($I_n$) | 20 / 80 kA |
| Voltage protection level [L-N] ($U_p$) | ≤ 1.5 kV |
| Voltage protection level [N-PE] ($U_p$) | ≤ 1.5 kV |
| Open-circuit voltage of the combination wave generator ($U_{OC}$) | 20 kV |
| Max. mains-side overcurrent protection | 160 A gG |
| Temporary overvoltage (TOV) [L-N] ($U_T$) – Characteristic | 440 V / 120 min. – withstand |
| Temporary overvoltage (TOV) [N-PE] ($U_T$) - Characteristic | 1200 V / 200 ms – withstand |
| Operating temperature range ($T_U$) | -40 °C ... +80 °C |
| Operating state / fault indication | green / red |
| Number of ports | 1 |
| Cross-sectional area (PEN, ) | 16-25 mm² flexible / 16-35 mm² stranded |
| For mounting on | 40 mm busbar systems |
| Enclosure material | thermoplastic, red, UL 94 V-0 |
| Place of installation | indoor installation |
| Degree of protection | IP 30 (in combination with cover) |
| Approvals | VDE |
| Power supply (for compartment for additional applications/termination point meter mounting board according to VDE-AR-N 4100) ($U_N$) | 230 V |
| Suitable circuit breakers (manufacturer, type) | ABB S201P-B6, Hager MB199 |
| Rated current of the circuit breaker ($I_n$) | 6 A |
| Tripping characteristic | B |
| **Extended technical data** | |
| Voltage protection level [L-PE] ($U_p$) | ≤ 1.6 kV |

| Masterdata | |
|---|---|
| Net weight | 769 g/pc(s) |
| GTIN | 4013364449756 |
| PU | 1 pc(s) |
| Customs tariff number (Comb. Nomenclature EU) | 85363090 |

We reserve the right to make changes to the design and technology, dimensions, weights and materials in the interests of technical progress. The illustrations are not binding.