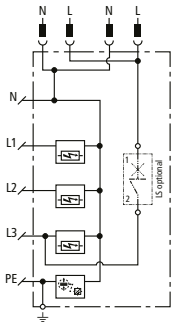
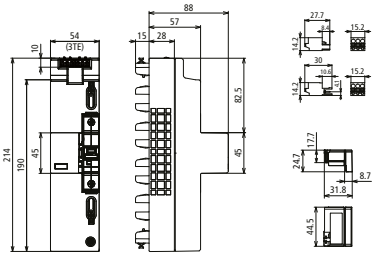
DSH ZP B2 LSG A TT 255 (909 131)

- 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 without external lightning protection (also with overhead line supply).

Type	**DSH ZP B2 LSG A TT 255**
Part No.	**909 131**
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})	30 kA
Lightning impulse current (10/350 µs) [L-N] (I_{imp})	7.5 kA
Specific energy [L-N] (W/R)	14.06 kJ/Ohm
Lightning impulse current (10/350 µs) [N-PE] (I_{imp})	30 kA
Specific energy [N-PE] (W/R)	225 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	4013364449749
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.