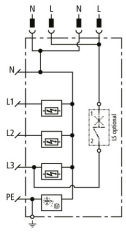
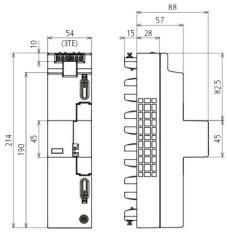
DSH ZP 2 LSG TT 255 (909 831)

- 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
- Subsequent integration of a single-pole B6 circuit breaker for supplying the intelligent measuring system according to VDE-AR-N 4100 possible
- Two sockets for the 230 V power supply (N and L) for the compartment for additional applications / termination point meter mounting board are integrated in the device

Figure without obligation



Basic circuit diagram DSH ZP 2 LSG TT 255



Dimension drawing DSH ZP 2 LSG TT 255

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 Part No.	DSH ZP 2 LSG TT 255 909 831 NEW
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 (a.c.) (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/ohms
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
Follow current extinguishing capability [L-N] (a.c.) (I_{fi})	25 kA_{rms}
Follow current extinguishing capability [N-PE] (a.c.) (I_{fi})	100 A_{rms}
Follow current limitation / Selectivity	no tripping of a 32 A gG fuse up to 25 kA_{rms} (prosp.)
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 mm^2 flexible / 16-35 mm^2 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
Weight	661 g
Customs tariff number (Comb. Nomenclature EU)	85363090
GTIN	4013364449732
PU	1 pc(s)

✔, : Tested NEW: New : Discontinued Model

Last update: 12.2022