

DB 3 255 H (900 120)

Encapsulated, non-exhausting creepage discharge spark gap
RADAX Flow spark gap technology with high follow current limitation
Can also be used upstream meter panels due to high insulation resistance

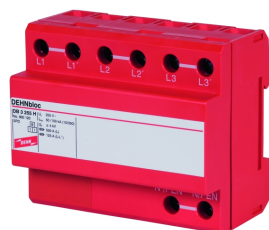
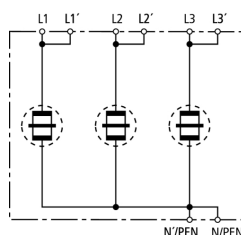
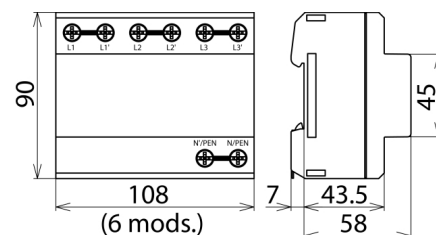


Figure without obligation



Basic circuit diagram DB 3 255 H



Dimension drawing DB 3 255 H

Single-pole and three-pole lightning current arrester with high follow current limitation

| Type | DB 3 255 H |
|---|--|
| Part No. | 900 120 |
| SPD according to EN 61643-11 | Type 1 |
| SPD according to IEC 61643-1 | Class I |
| Nominal a.c. voltage (U_N) | 230/400 V |
| Max. continuous operating a.c. voltage (U_C) | 255 V |
| Lightning impulse current (10/350 μ s) [L-N/PEN] (I_{imp}) | 50 kA |
| Specific energy [L-N/PEN] (W/R) | 625.00 kJ/ohms |
| Lightning impulse current (10/350 μ s) [L1+L2+L3-N/PEN] (I_{total}) | 100 kA |
| Specific energy [L1+L2+L3-N/PEN] (W/R) | 2.50 MJ/ohms |
| Nominal discharge current (8/20 μ s) (I_N) | 50 / 100 kA |
| Voltage protection level (U_P) | ≤ 4 kV |
| Follow current extinguishing capability a.c. (I_R) | 50 kA _{rms} |
| Follow current limitation / Selectivity | no tripping of a 32 A gL/gG fuse up to 50 kA _{rms} (prosp.) |
| Response time (t_A) | ≤ 100 ns |
| Max. backup fuse up to $I_K = 50$ kA _{rms} ($t_a \leq 0.2$ s) | 500 A gL/gG |
| Max. backup fuse up to $I_K = 50$ kA _{rms} ($t_a \leq 5$ s) | 315 A gL/gG |
| Max. backup fuse for $I_K > 50$ kA _{rms} | 200 A gL/gG |
| Max. backup fuse (L-L') | 125 A gL/gG |
| Temporary overvoltage (TOV) (U_T) | 335 V / 5 sec. |
| TOV characteristic | withstand |
| Operating temperature range (parallel connection) (T_{UP}) | -40°C...+80°C |
| Operating temperature range (series connection) (T_{US}) | -40°C...+60°C |
| Number of ports | 1 |
| Cross-sectional area (L1, L1', L2, L2', L3, L3', N/PEN, N'/PEN) | 10 mm ² solid/flexible |
| Cross-sectional area (L1, L2, L3, N/PEN) | 50 mm ² stranded/35 mm ² flexible |
| Cross-sectional area (L1', L2', L3', N'/PEN) | 35 mm ² stranded/25 mm ² flexible |
| For mounting on | 35 mm DIN rails acc. to EN 60715 |
| Enclosure material | thermoplastic, red, UL 94 V-0 |
| Place of installation | indoor |
| Degree of protection | IP 20 |
| Capacity | 6 module(s), DIN 43880 |
| Approvals | KEMA, VDE |
| Weight | 873 g |
| Customs tariff number | 85363030 |
| GTIN | 4013364109377 |
| PU | 1 pc(s) |

We reserve the right to introduce changes in performance, configuration and technology, dimensions, weights and materials in the course of technical progress. The figures are shown without obligation.