

**Lightning Current Arrester with
high Follow Current Extinguishing Capability****LIGHTNING CURRENT ARRESTERS – TYPE 1**

SPD Type 1 according to EN 61643-11;
Classification B according to E DIN VDE 0675-6;
SPD Class I according to IEC 61643-1;

- Creepage discharge spark gap with RADAX Flow technology
- Follow current extinguishing capability up to 50 kA_{rms}
- No tripping of 40 A gL/gG fuses up to 50 kA_{rms}
- Installation possible upstream of supply meters according to national regulations (e.g. Germany: VDN guidelines)
- 50 kA (10/350) lightning impulse current

discontinued

DPM 255: Single-pole lightning current arrester with high follow current extinguishing capability

The groundbreaking development of the RADAX Flow technology for extinction of follow currents and follow current limitation has been realised for the first time in the "heavy-duty" lightning current arrester DEHNport® Maxi. With a follow current extinguishing capability of 50 kA_{rms}, it safely extinguishes follow currents of 50 Hz without causing a system interruption due to tripping upstream overcurrent protective devices. Therefore, DEHNport® Maxi is always the right choice for realising lightning equipotential bonding in industrial low voltage main distribution boards. The patented RADAX Flow technology allows a disconnecting selectivity even for small-sized fuses. This ensures the highest system availability possible.

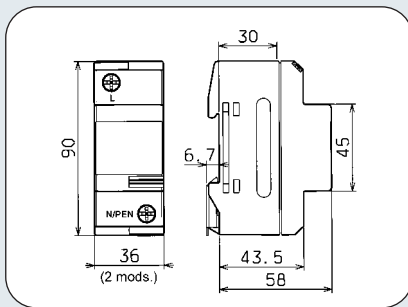


For protection of low voltage consumer's installations against surges even at direct lightning strikes. For use in the lightning protection zones concept at boundaries 0_A – 1.

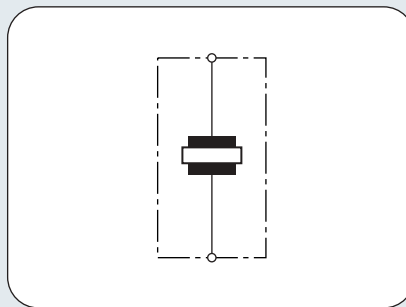
The leakage current free spark gap based arrester DEHNport® Maxi is very suitable for installation upstream of supply meters in accordance with national regulations (e.g. Germany: VDN guidelines). With a discharge capacity of 50 kA (10/350) per device, all system-specific types of DEHNport® Maxi fulfil the highest requirements of national and international lightning protection standards. The multifunctional terminal can be connected simultaneously to conductors and busbars and thus allows an easy wiring with other DIN rail mounted devices.



LIGHTNING CURRENT ARRESTERS – TYPE 1



Dimension drawing DPM 255



Basic circuit diagram DPM 255



discontinued

DPM 255: Single-pole lightning current arrester with high follow current extinguishing capability

| DPM 255 | |
|---|--|
| SPD according to EN 61643-11 | Type 1 |
| SPD according to IEC 61643-1 | Class I |
| Classification according to E DIN VDE 0675-6 | B |
| Max. continuous ac voltage U_c | 255 V |
| Lightning impulse current (10/350) I_{imp} | 50 kA |
| Nominal discharge current (8/20) I_n | 50 kA |
| Voltage protection level U_p | ≤ 4 kV |
| Follow current extinguishing capability ac I_{fi} | 50 kA _{rms} |
| Follow current limitation / Selectivity | no tripping of a 40 A gL/gG fuse up to 50 kA _{rms} (prosp.) |
| Response time t_A | ≤ 100 ns |
| Max. backup fuse up to $I_k = 25$ 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 at $I_k > 50$ kA rms | 200 A gL/gG |
| TOV voltage | 335 V / 5 sec. |
| Operating temperature range | -40°C...+80°C |
| Min. cross-sectional area | 10 mm ² solid / flexible |
| Max. cross-sectional area | 50 mm ² stranded / 35 mm ² flexible |
| Mounting on | 35 mm DIN rail acc. to EN 60715 |
| Enclosure material | red thermoplastic, UL 94 V-0 |
| Degree of protection | IP 20 |
| Dimension | 2 mods., DIN 43880 |
| Approvals, Certifications | KEMA, VDE, UL |
| Ordering information | |
| Type | DPM 255 |
| Part No. | 900 104 |
| Packing unit | 1 pc(s) |