

PIIIM-275 DS/3+0 Vseries

- Surge arresters type T2 ensure the equipotential bonding and reduce switching, induced and residual overvoltage in LV power supply systems.
- The products consist of varistors with big discharge ability.
- Configurations 1+1 and 3+1 are additionally combined with a gas discharge tube which ensures zero leakage current through the PE conductor.
- Installed on the interface of LPZ 1 LPZ 2 into subsidiary switchboards and control boxes.
- **M** indication specifies a type of construction with removable module.
- **DS** indication specifies a version with remote monitoring.
- Other voltage levels can be produced on request.

| Туре | | PIIIM-275 DS/3+0 Vseries |
|---|--------------------|---|
| Test class according to EN 61643-11:2012 (IEC 61643-11:2011) | | T2 |
| System | | TN-C |
| Number of poles | | 3 |
| Rated operating AC voltage | U_N | 230 V |
| Maximum continuous operating voltage AC | U_{C} | 275 V |
| Maximum discharge current (8/20) | I _{max} | 50 kA |
| Nominal discharge current for class II test (8/20) | l _n | 20 kA |
| Total discharge current (8/20) L1+L2+L3->PEN | I _{Total} | 150 kA |
| Voltage protection level at I _n | U_p | < 1.3 kV |
| Temporary overvoltage test (TOV) for $t_T = 5 \text{ s}$ | U_T | 335 V |
| Response time | t _A | < 25 ns |
| Maximal back-up fuse | | 160 A gL/gG |
| Short-circuit current rating at maximum back-up fuse | I _{SCCR} | 60 kA _{rms} |
| Lightning protection zone | | LPZ 1-2, LPZ 2-3 |
| Housing material | | Polyamid PA6, UL94 V-0 |
| Degree of protection | | IP20 |
| Operating temperature | θ | -40 ÷ 70 °C |
| Minimum cross-section of connected Cu conductors accord. to HD 60364-5-53:2022 (doesn't apply to "V" connection) for T2 | S | 2.5 mm² (L, N) 6 mm² (PE, PEN) |
| Clamp fastening range (solid conductor) | | 2.5 ÷ 35 mm ² |
| Clamp fastening range (stranded conductor) | | 2.5 ÷ 25 mm ² |
| Tightening moment | | 4 Nm |
| Installation | | On DIN rail 35 mm |
| Modular width | | 3 TE |
| Operating position | | Any |
| Signalling at the device | | Optic |
| Importance of local signaling | | OK – green target FAULT – red target |
| Remote signalling | | Yes |



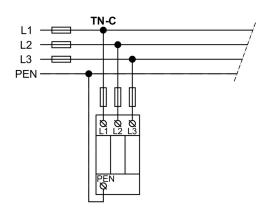
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|---|---|--------------------------------------|
| Potential free signal contact (S) (recommended cross-section of remote monitoring max. 1 mm²) | | AC: 250 V / 1.5 A, DC: 250 V / 0.1 A |
| Modular design | | Yes |
| Article number of spare module | | 27 044 |
| Lifetime | | > 100 000 h |
| Designed according to standards | | |
| Requirements and test methods for SPDs connected to low-voltage power systems | | IEC 61643-11:2011 |
| Safety of Flammability of Plastic Materials | | UL 94 |
| Application standards | | |
| Protection against lightning | | IEC 62305:2010 |
| Selection and erection of electrical equipment - Switchgear and controlgear | | HD 60364-5-53:2022 |
| Selection and application principles for SPDs connected to low-voltage power systems | | CLC/TS 61643-12:2009 |
| Ordering, packaging and additional data | | |
| Mass | m | 375 g |
| Mass (including the packaging) | m | 394 g |
| Packaging dimensions (H x W x D) | | 60 x 111 x 87 mm |
| Packaging value | V | 0.58 dm ³ |
| ETIM group | | EG000021 |
| ETIM class | | EC000941 |
| Customs tariff no. | | 85363010 |
| EAN code | | 8590681270332 |
| Art. number | | 27 033 |



The link in the QR code leads to the online presentation of the **PIIIM-275 DS/3+0 Vseries**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit **www.hakel.com**



Application wiring diagram (installation)



Internal diagram

