

DEHN TYPE 2 AND 3 AC SURGE ARRESTERS

DEHNguard

952310

DEHNguard M TT 275 Type 2 surge arrester, Modular and pluggable four-pole surge arrester for 230/400 V TT and TN-S systems

- Type 2 and 3 combined Devices
- 1-phase and 3-phase options
- Fault monitoring versions
- Vibration and shock-tested according to EN 60068-2
- MP versions with push-in double terminals for easy wiring



PRODUCT DESCRIPTION

These DEHN Type 2 & 3 surge arresters are modular, multipole devices engineered to protect low-voltage electrical systems from transient overvoltages and lightning-induced surges. Built to EN 61643-11 and IEC 61643-11 standards, they are suitable for both single-phase and three-phase installations, featuring nominal voltages of 230 / 400 V with a maximum continuous operating voltage (UC) of 275 V (L–N). Each unit can withstand a nominal discharge current (I_n) of 20 kA (8/20 μ s), with short-circuit strength rated up to 50 kArms, and suppresses voltage surges to ≤ 1.5 kV at the protection level (U_p). The modular construction spans 3–4 DIN rail widths (approximately 90 × 72 × 66 mm) and includes ACI (Advanced Circuit Interruption) or spark-gap protection modules with visible green/red fault indicators and remote signalling contacts for easy status monitoring.

These arresters are ideal for safeguarding industrial control panels, machinery, distribution boards, and junction boxes, particularly in TN-S, TN-C, TT, and TN systems. They protect sensitive electronics, PLCs, motors, and communication equipment from damage due to switching transients and indirect lightning strikes. Their modular, push-in terminal design simplifies installation and maintenance, while the ACI technology ensures automatic disconnection of failed modules, allowing safe online replacement without shutting down the entire system. Combining Type 2 and 3 capabilities in one compact unit makes them particularly valuable for OEMs and electricians seeking reliable, space-conscious and vibration-resistant surge protection.

TECHNICAL DATA

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| | |
|-----------------------------|-------------|
| Protection type | Type 2 & 3 |
| Protection class | Class 2 |
| Earthing arrangement | TT, TN-S |
| Phases | 3-phase |
| Nominal voltage | 230 / 400 V |
| Max operating voltage (L–N) | 275 V |
| Voltage protection level | ≤ 1.5 |
| Nominal discharge current | 20 kA |
| Short circuit strength | 50 kArms |

| | |
|-----------|------------|
| Frequency | 50 / 60 Hz |
|-----------|------------|

DIMENSIONS

| | |
|-------------------|-------|
| Length | 90 mm |
| Width | 72 mm |
| Height | 66 mm |
| Number of modules | 4 |

CONNECTION DATA

| | |
|--------------------------------|---------------------|
| Cross section single wire from | 1.5 mm ² |
| Cross section single wire to | 35 mm ² |
| Remote signalling contact | No |
| Connection type | Screw |

ADDITIONAL DATA

| | |
|-------------------|---------------|
| Approvals | Kema, UL, VDE |
| Tariff code | 85363030 |
| Country of origin | DE |
| Weight | 0.405 kg |

