

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 (In) 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 (Up). 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
3549_Voltage protection level (kV)	≤ 1.5
Nominal discharge current	20 kA
Short circuit strength	50 kArms

Frequency	50 / 60 Hz
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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

