

PIIIM-275 DS/3+1 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+1 Vseries
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T2
System		TN-S, TT
Number of poles		4
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)	I _n	20 kA
Total discharge current (8/20) L1+L2+L3+N->PE	I _{Total}	50 kA
Voltage protection level at I _n	U_p	< 1.3 kV
Impulse discharge current for class I test (10/350) N/PE	l _{imp}	20 kA
Temporary overvoltage test (TOV) for $t_T = 5 s (L/N)$	U _T	335 V
Temporary overvoltage test (TOV) for $t_T = 0.2 \text{ s}$ (N/PE)	U_{T}	1 200 V
Response time (L/N)	t _A	< 25 ns
Response time (N/PE)	t _A	< 100 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	9	-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		4 TE
Operating position		Any
Signalling at the device		Optic



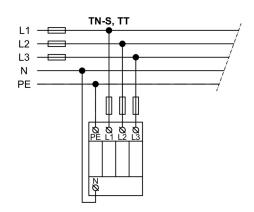
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Importance of local signaling		OK – green target FAULT – red target
Remote signalling		Yes
Potential free signal contact (S) (recommended cross-section of remote monitoring max. 1 mm²)		AC: 250 V / 1.5 A, DC: 250 V / 0.1 A
Modular design		Yes
Article number of spare module		27 044, 27 049
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	478 g
Mass (including the packaging)	m	502 g
Packaging dimensions (H x W x D)		77 x 114 x 88 mm
Packaging value	V	$0.77~\mathrm{dm^3}$
ETIM group		EG000021
ETIM class		EC000941
Customs tariff no.		85363010
EAN code		8590681270233
Art. number		27 023



The link in the QR code leads to the online presentation of the **PIIIM-275 DS/3+1 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

