

PIVM12,5-275 DS/3+0 Vseries

- Lightning impulse current and surge arresters type T1+T2 ensure the equipotential bonding, eliminate the effects of lightning current and reduce switching, induced and residual overvoltage in single-phase and three-phase 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.
- Suitable for objects with considerable levels of protection LPL III and LPL IV.
  - Installed at the boundaries of LPZ 0 – LPZ 1 and higher zones, closest to where overhead line enters the building i.e. in the main distribution boards.
  - **M** specifies a type of construction with removable module.
  - **DS** indication specifies a version with remote monitoring.
  - Other voltage levels can be produced on request.

Type		PIVM12,5-275 DS/3+0 Vseries
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T1, T2
System		TN-C
Number of poles		3
Rated operating AC voltage	U <sub>N</sub>	230 V
Maximum continuous operating voltage AC	U <sub>C</sub>	275 V
Maximum discharge current (8/20)	I <sub>max</sub>	50 kA
Impulse discharge current for class I test (10/350)	I <sub>imp</sub>	12.5 kA
Charge	Q	6.25 As
Specific energy for class I test	W/R	39 kJ/Ω
Total discharge current (10/350) L1+L2+L3->PEN	I <sub>Total</sub>	37.5 kA
Total discharge current (8/20) L1+L2+L3->PEN	I <sub>Total</sub>	150 kA
Nominal discharge current for class II test (8/20)	I <sub>n</sub>	20 kA
Voltage protection level at I <sub>n</sub>	U <sub>p</sub>	< 1.2 kV
Temporary overvoltage test (TOV) for t <sub>T</sub> = 5 s	U <sub>T</sub>	335 V
Response time	t <sub>A</sub>	< 25 ns
Maximal back-up fuse		160 A gL/gG
Short-circuit current rating at maximum back-up fuse	I <sub>SCCR</sub>	60 kA <sub>rms</sub>
Lightning protection zone		LPZ 0-1, 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 T1	S	6 mm <sup>2</sup> (L, N) 16 mm <sup>2</sup> (PE, PEN)
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 mm <sup>2</sup> (L, N) 6 mm <sup>2</sup> (PE, PEN)
Clamp fastening range (solid conductor)		2.5 ÷ 35 mm <sup>2</sup>
Clamp fastening range (stranded conductor)		2.5 ÷ 25 mm <sup>2</sup>
Tightening moment		4 Nm
Installation		On DIN rail 35 mm

Type		PIVM12,5-275 DS/3+0 Vseries
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
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		16 058
Lifetime		> 100 000 h
<b>Designed according to standards</b>		
Requirements and test methods for SPDs connected to low-voltage power systems		IEC 61643-11:2011
Safety of Flammability of Plastic Materials		UL 94
<b>Application standards</b>		
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
<b>Ordering, packaging and additional data</b>		
Mass	m	420 g
Mass (including the packaging)	m	439 g
Packaging dimensions (H x W x D)		60 x 111 x 87 mm
Packaging value	V	0.58 dm³
ETIM group		EG000021
ETIM class		EC001457
Customs tariff no.		85363010
EAN code		8590681160534
Art. number		16 053

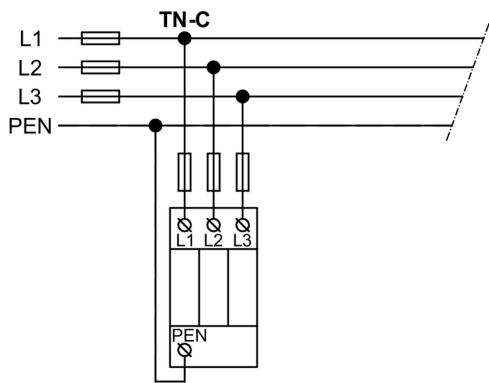


The link in the QR code leads to the online presentation of the **PIVM12,5-275 DS/3+0 Vseries**.  
There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials.  
For more information, visit [www.hakil.com](http://www.hakil.com)



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Application wiring diagram (installation)



Internal diagram

