

## PIVM12,5-275/2+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	PIVM12,5-275/2+0 Vseries	
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T1, T2
System		TN-S
Number of poles		2
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
Impulse discharge current for class I test (10/350)	$I_{imp}$	12.5 kA
Charge	$Q$	6.25 As
Specific energy for class I test	$W/R$	39 kJ/Ω
Total discharge current (10/350) L+N->PE	$I_{Total}$	25 kA
Total discharge current (8/20) L+N->PE	$I_{Total}$	100 kA
Nominal discharge current for class II test (8/20)	$I_n$	20 kA
Voltage protection level at $I_n$	$U_p$	< 1.2 kV
Temporary overvoltage test (TOV) for $t_T = 5$ 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 <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	$\vartheta$	-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		PIVM12,5-275/2+0 Vseries
Modular width		2 TE
Operating position		Any
Signalling at the device		Optic
Importance of local signaling		OK – green target FAULT – red target
Remote signalling		No
Pluggable version		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	287 g
Mass (including the packaging)	m	302 g
Packaging dimensions (H x W x D)		43 x 112 x 87 mm
Packaging value	V	0.42 dm <sup>3</sup>
ETIM group		EG000021
ETIM class		EC001457
Customs tariff no.		85363010
EAN code		8590681160503
<b>Art. number</b>		<b>16 050</b>

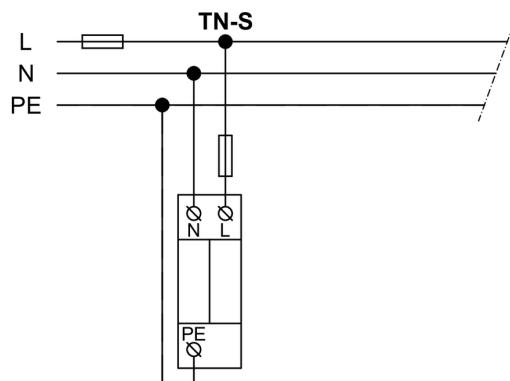


The link in the QR code leads to the online presentation of the PIVM12,5-275/2+0 Vseries. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit [www.hakil.com](http://www.hakil.com)



8590681160503

## Application wiring diagram (installation)



## Internal diagram

