





PIVM12,5-275 IT DS/2+1 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 IT power supply systems.
- The products consist of varistors with big discharge ability with gas discharge tube, which ensures zero leakage current in the PE conductor.
- Installed at the boundaries of zones LPZ 0 LPZ 1 and higher closest to where the overhead line enters the building.
- Suitable for objects with considerable levels of protection LPL III and LPL IV.
- **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.

Туре		PIVM12,5-275 IT DS/2+1 Vseries
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T1, T2
System		IT
Number of poles		3
Nominal line 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) L/CP	I _{imp}	12.5 kA
Charge (L/CP)	Q	6.25 As
Specific energy for class I test (L/CP)	W/R	39 kJ/Ω
Impulse discharge current for class I test (10/350) CP/PE	I _{imp}	25 kA
Charge (CP/PE)	Q	12.5 As
Specific energy for class I test (CP/PE)	W/R	156 kJ/Ω
Total discharge current (10/350) L1+L2+CP->PE	I _{Total}	25 kA
Nominal discharge current for class II test (8/20)	I _n	25 kA
Voltage protection level at I _n	U_p	< 2.5 kV
Temporary overvoltage test (TOV) for $t_T = 5 s (L/CP)$	U _T	337 V
Temporary overvoltage test (TOV) for $t_T = 0.2 \text{ s}$ (CP/PE)	U _T	1 200 V
Response time (L/CP)	t _A	< 25 ns
Response time (CP/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 0-1, 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 T1	S	6 mm² (L, N) 16 mm² (PE, PEN)

Lightning and surge arresters T1+T2 for IT systems



Minimum cross-section of connected Cu conductors accord. to HD 60364-5-53:2022 \$ 1, 10 (doesn't apply to _V* connection) for T2 Clamp fastering range (solid conductor) 2.5 ÷ 25 mm² Clamp fastering range (solid conductor) 2.5 ÷ 25 mm² Tightening moment 4 km Installation On DIN rail 35 mm 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 the varistor spare module 16 058 Article number of the square fisher spare module 16 041 Lifetime > 100 000 h Designed according to standards IEC 61643-11:2011 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 IEC 62305:2010 Selection and arection of electrical equipment – Switc	Туре		PIVM12,5-275 IT DS/2+1 Vseries
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Customs tariff no. 85363010 EAN code 8590681109618	ETIM group		EG000021
EAN code 8590681109618	ETIM class		EC001457
	Customs tariff no.		85363010
Art. number 16 164	EAN code		8590681109618
	Art. number		16 164



The link in the QR code leads to the online presentation of the PIVM12,5-275 IT DS/2+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)







