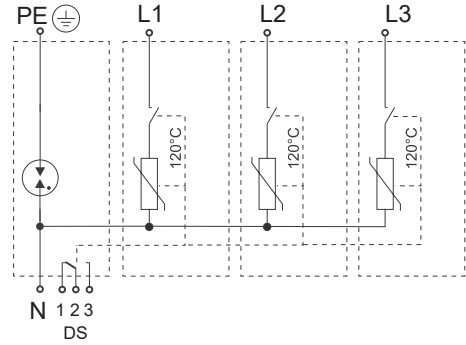
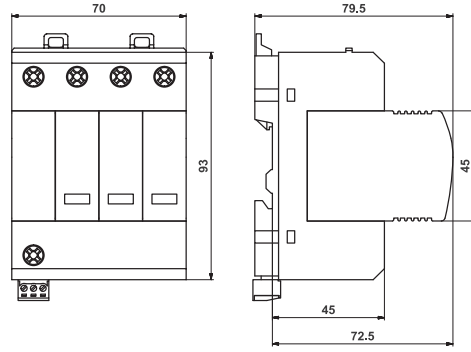


Lightning and surge arrester / varistor + gas discharge tube / TYPE 1+2

TYPE 1+2 / CLASS I+II / TN-S / TT / CE



PIVM12,5-275/3+1
PIVM12,5-275 DS/3+1

PIVM12,5-275/3+1 **Vseries** is a four-pole, metal oxid varistor lightning and surge arrester, combined with gas discharge tube Type 1+2 according to ICE EN 61643-11. These arresters are recommended for use in the Lightning Protection Zones Concept at the boundaries of LPZ 0 – 1 (according to IEC EN 62305), where they provide the equipotential bonding and discharge of both, the lightning current and the switching surge, which are generated in power supply systems entering the building. The use of the lightning current arresters PIVM12,5-275/3+1 **Vseries** is mainly in the power supply lines, which are operated as TN-S and TT systems. The main use of PIVM12,5-275/3+1 **Vseries** arrester is in structures of LPL III – IV according to IEC EN 62305.

The marking **M** specifies a type of construction with removable module. The marking of **DS** specifies a version with remote monitoring.

Type Vseries		PIVM12,5-275/3+1, PIVM12,5-275 DS/3+1
Test class according to IEC EN 61643-11		TYPE 1+2, CLASS I+II
Max. continuous operating voltage	U_C	275 V AC / 350 V DC
Max. discharge current (8/20)	I_{max}	50 kA
Lightning impulse current (10/350) L/N	I_{imp}	12,5 kA
- charge	Q	6,25 As
- specific energy	W/R	39 kJ/Ω
Lightning impulse current (10/350) N/PE	I_{imp}	50 kA
- charge	Q	25 As
- specific energy	W/R	625 kJ/Ω
Total lightning current (10/350) L1+L2+L3+N→PE	I_{total}	50 kA
Nominal discharge current (8/20)	I_n	20 kA
Voltage protection level	U_p	< 1,2 kV
Temporary overvoltage (TOV) L/N	U_T	335 V/5 s
Temporary overvoltage (TOV) N/PE	U_T	1200 V/0,2 s
Response time L/N	t_A	< 25 ns
Response time N/PE	t_A	< 100 ns
Max. back-up fuse		160 A gL/gG
Short-circuit withstand capability LPZ	I_p	60 kA _{rms} 0-1
Housing material		Polyamid PA6, UL94 V-0
Protection type		IP20
Operating temperature range	ϑ	-40°C ... +80 °C
Cross-section of the connected conductors (at tightening moment of clamps 4 Nm)		25 mm ² (solid) 16 mm ² (wire)
Mounting on		DIN rail 35 mm
Failure signalisation		green - ok / red - failure
Potential free signal contact (DS) (recommended cross-section of remote monitoring max.1 mm ²)		AC: 250 V / 0,5 A, DC: 250 V / 0,1 A
Lifetime		min.100 000 h
Weight	m	536 g
Article number		
PIVM12,5-275/3+1		16 054
PIVM12,5-275 DS/3+1		16 055
Varistor-based spare module		PIVM12,5-275/M 16 058
GDT spare module		B50M/M 16 060