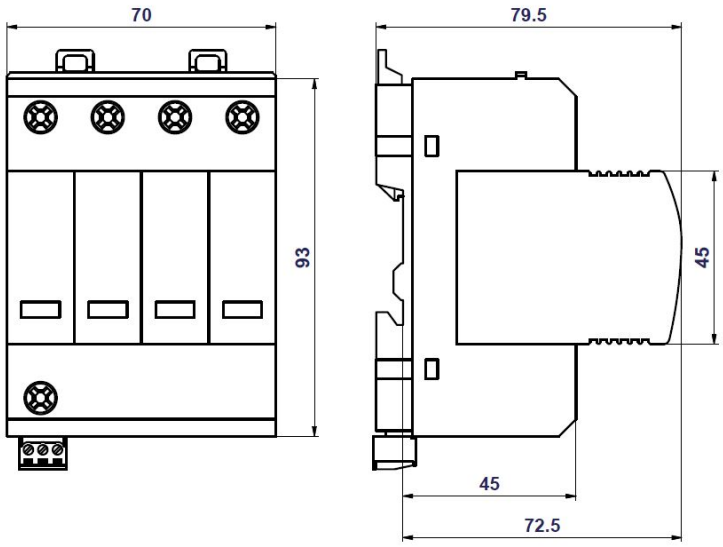
Lightning and surge arresters – (TYP 1 +2)

TYP1+2, CLASS I+II





PIVM PV 1000 DS Vseries

PIVM PV 1000 are the lightning and surge arresters type 1+2 according to EN 61643-11 and IEC 61643-11 and UTE C 61-740-51. These arresters are recommended for use in the Lightning Protection Zones Concept at the boundaries of LPZ 0-2 (according to IEC EN 62305) for equipotential bonding of positive and negative busbars of photovoltaic systems and elimination of transient overvoltage that originates during the atmospheric discharges or switching processes. **Particular varistor sectors, connected between the terminals L+, L- and PE, are equipped with internal disconnectors, which are activated when the varistors fail (overheat).** Operational status indication of these disconnectors is partly visual (discoloration of the signal field) and partly remote monitoring (by potential free change over contacts – only DS types).

The marking **M** specifies a type of construction with removable module.

Typ		PIVM PV 1000 DS Vseries
Test class according to EN 61643-11:2012 and IEC 61643-11:2011		TYP1+2, CLASS I+II
Maximum continuous operating voltage	U_C	1000 V DC
Max. voltage of PV generator	U_{OCSTC}	U OCSTC < U CPV /1,2 = 830 V
Short-circuit current rating for PV application	I_{SCPV}	10 kA
Impulse discharge current for class I test (10/350)	I_{imp}	6,5 kA
Charge	Q	3,25 As
Specific energy for class I test	W/R	10 kJ/Ω
Application		L+/L-, L+/PE, L-/PE
Maximum discharge current	I_{max}	40 kA
Nominal discharge current for class II test (8/20)	I_n	15 kA
Voltage protection level at I_n	U_p	< 3,4 kV
Response time	t_A	< 25 ns
LPZ		0-1 and higher
Housing material		Polyamid PA6, UL94 V-0
Degree of protection of enclosure		IP20
Operating temperature	ϑ	-40°C ... +70 °C
PIVM PV 1000 DS Vseries		T1: 6 mm² (L, N), 16 mm² (PE, PEN) T2: 2,5 mm² (L, N), 6 mm² (PE, PEN)

Range of clamps fastening		2,5 ÷ 35 mm² (solid) / 2,5 ÷ 25 mm² (wire)
Method of assembly		DIN rail 35 mm
Failure signalisation (S)		green - ok / red - failure
Potential free signal contact (DS) (recommended cross-section of remote monitoring max.1 mm²)		AC: 250 V / 1,5 A, DC: 250 V / 0,1 A
Weight	m	390 g
Lifetime		min.100 000 h
Article number		
PIVM PV 1000 DS Vseries		**16 077**

