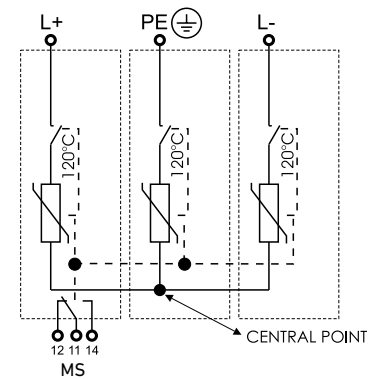
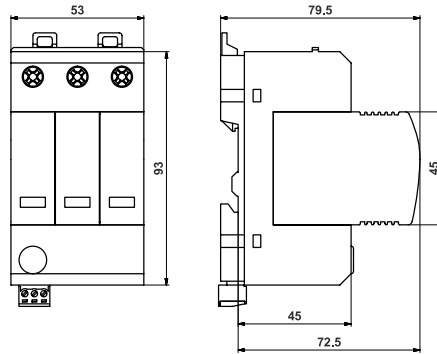


PV Surge Arrester TYPE 2

TYPE 2
VARISTOR
TYPE 2 / CLASS II / CE


PZH R2 PV/600/40 M, PZH R2 PV/800/40 M, PZH R2 PV/1000/40 M, PZH R2 PV/600/40 MS, PZH R2 PV/800/40 MS, PZH R2 PV/1000/40 MS

PIIIM PV are the lightning and surge arresters type 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 1-2 (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 MS types).

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

TYPE		PZH R2 PV/600/40 M, PZH R2 PV/600/40 MS	PZH R2 PV/800/40 M, PZH R2 PV/800/40 MS	PZH R2 PV/1000/40 M, PZH R2 PV/1000/40 MS
Test class according to IEC EN 61643-11 and EN 50539-11		TYPE 2, CLASS II		
Max. continuous operating voltage	U _{cpv}	600 V DC	870 V DC	1050 V DC
Open circuit voltage of PV generator	U _{OCSTC}	U _{OCSTC} < U _{CPV} /1,2 = 500 V	U _{OCSTC} < U _{CPV} /1,2 = 730 V	U _{OCSTC} < U _{CPV} /1,2 = 875 V
Short circuit withstand	I _{SCPV}	100 A		
Application		L+/L-, L+/PE, L-/PE		
Max. discharge current (8/20)	I _{max}	40 kA		
Nominal discharge current (8/20)	I _n	20 kA	15 kA	
Voltage protection level at I _n	U _p	< 2,6 kV	< 3,3 kV	< 3,8 kV
Response time	t _A	< 25 ns		
LPZ		1-2		
Housing material		Polyamid PA6, UL94 V-0		
Protection type		IP20		
Operating temperature range	ϑ	-40°C ... +70 °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 (MS) (recommended cross-section of remote monitoring max.1 mm ²)		AC: 250 V / 0,5 A, DC: 250 V / 0,1 A		
Weight		270 g	420 g	
Lifetime		min.100 000 h		
Article number		77 27 060 (M), 77 27 061 (MS)	77 27 056 (M), 77 27 059 (MS)	77 27 054 (M), 77 27 058 (MS)
VARISTOR-BASED SPARE MODULE		PZH R2 PV/600/40 MODULE	PZH R2 PV/800/40 MODULE	PZH R2 PV/1000/40 MODULE
Article number		77 27 062	77 27 068	77 27 055