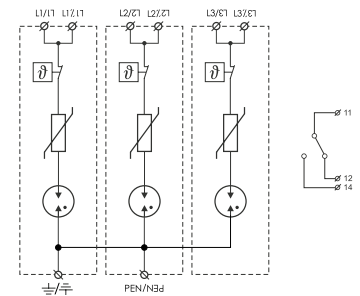
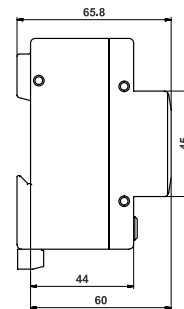
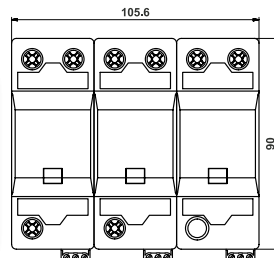


# Lightning and Surge Arrester TYPE 1+2

**VARISTOR + GAS DISCHARGE TUBE**
**TYPE 1+2 / CLASS I+II / TN-C / CE**


## PZH R1 255/25G/3+0, PZH R1 255/25G/3+0 S

PZH R1 25G\* is a lightning and surge arrester according to EN 61643-11 ed.2 (IEC 61643-11:2011). It consists of high energy double varistors for better discharge ability and a gas discharge tube connected in series, which ensures zero leakage current through the conductor. Its parameters enable usage in buildings with considerable levels of protection LPL I and LPL II, such as hospitals, banks, industrial and administration complexes, schools, shopping and sports centres or supermarkets. The device is to be installed on the interface of LPZ 0 – LPZ 1 and higher zones according to standard EN 62305 ed.2 (IEC 62305:2010), closest to where overhead line enters the building i.e. in the main distribution boards. The product has two PEN terminals, which can not be used as a PEN bridge. **S** indication specifies a version with remote monitoring.

TYPE	PZH R1 255/25G/3+0, PZH R1 255/25G/3+0 S	
Test class according to EN 61643-11 ed.2 (IEC 61643-11:2011)	TYPE 1+2, CLASS I+II	
System	TN-C	
Max. continuous operating voltage	$U_c$	255 V AC
Impulse discharge current for class I test (10/350)	$I_{imp}$	25 kA
Charge	$Q$	12,5 As
Specific energy	W/R	156 kJ/Q
Total discharge current (10/350) L1+L2+L3->PEN	$I_{TOTAL}$	75 kA
Nominal discharge current for class II test (8/20)	$I_n$	25 kA
Maximum discharge current (8/20)	$I_{max}$	50 kA
Total discharge current (8/20) L1+L2+L3->PEN	$I_{TOTAL}$	150 kA
Voltage protection level at $I_n$	$U_p$	< 1,2 kV
Temporary overvoltage (TOV)	$U_T$	337 V/5 s
Response time	$t_A$	< 25 ns
Max. back-up fuse		250 A gL/gG
Max. back-up fuse („V” connection)		125 A gL/gG
Short-circuit withstand capability 160 A gL/gG	$I_p$	25 kA <sub>rms</sub>
LPZ		0-1
Housing material		Polyamid PA6, UL94 V-0
Degree of protection of enclosure		IP20
Operating temperature range	$\theta$	-40°C ... +70 °C
Cross-section of the connected conductors (at tightening moment of clamps 3 Nm)		35 mm <sup>2</sup> (solid) - 25 mm <sup>2</sup> (wire)
The mounting method / operating position		DIN rail 35 mm / any
Failure signalisation		optical function signalization target clear – ok optical function signalization target red - fault
Potential free signal contact (S) (recommended cross-section of remote monitoring max. 1 mm <sup>2</sup> )		AC: 250 V / 0,5 A, DC: 250 V / 0,1 A
Lifetime		min. 100 000 h
Weight		750 g
Article number		<b>77 10 464, 77 10 468 (S)</b>