

## SURGE ARRESTER

### LT SURGE ARRESTERS



#### **TYPE LAS-001**

#### **SiC with Gap Surge Arrester**

LAS-001 surge arresters are used in L.T. Overhead lines. They consist of spark gaps and non-linear resistors connected in series which are housed in a weather-proof plastic body and sealed with a cap of stainless steel. All performance and ratings are conformed to IEC 60099-1

#### **TYPE LOZA**

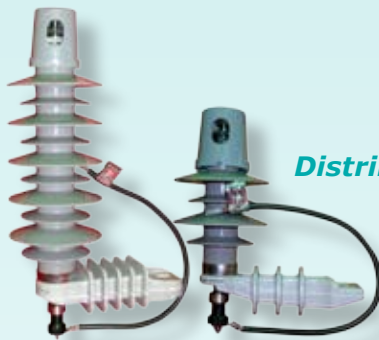
#### **ZnO Gapless Surge Arrester**

The **PRECISE**'s surge arresters 480 V 5 kA type LOZA, surge arresters are used in Low Voltage system. The Surge arresters have manufactured certificate ISO 9001 and successfully pass the test requirements according to the latest version of IEC 61643-1

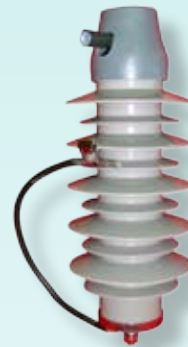


### HT SURGE ARRESTERS

Silicone Housed ZnO Gapless Surge Arrester



**Distribution Class**



**Station Class**

The **PRECISE**'s surge arresters type LAZ-P, PAZ-P-1, PAZ-P-2 and PAZ-P-3 with silicone housing were developed for medium voltage distribution system.

The surge arresters have manufactured certificate ISO 9001 and successfully pass the test requirements according to the latest version of IEC 60099-4

Both LT and HT surge arresters are available to limit overvoltage and to protect the equipment and shall be installed list below:

- At the cable sealing ends
- At Transformer station secondary side and primary side
- At the end line and or long branch line



Product Certified by

**CESI**  
MILAN, ITALY



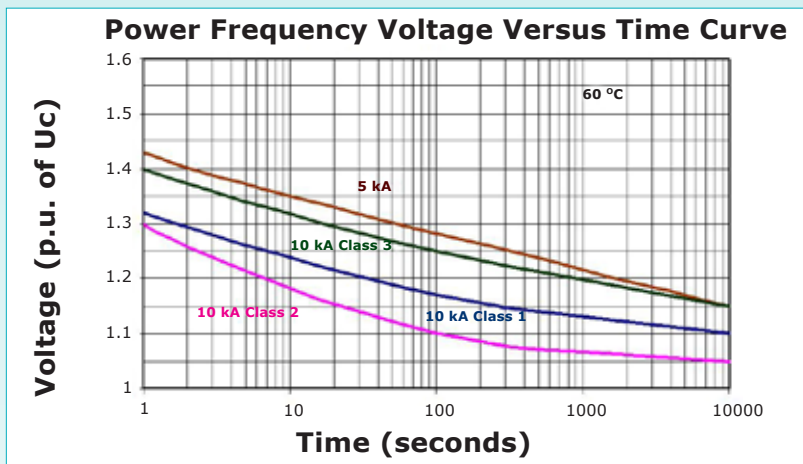
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## SURGE ARRESTER

### General Characteristics of PRECISE's Surge Arresters

Type of PRECISE's arresters	LAS-001	LOZA	LAZ-P	PAZ-P-1	PAZ-P-2	PAZ-P-3
Applied standard	IEC 60099-1	IEC 61643-1	IEC 60099-4			
Type of surge arresters	SiC with gaps		ZnO gapless			
Rated voltage : Ur ( kV )	0.5	0.48	3-45			
Maximum continuous operating Voltage : Uc ( kVrms )	-	Ur	0.8 Ur			
Rated frequency ( Hz )	48-62					
Norminal discharge current ( kApeak )	2.5	5		10		
Line discharge class	Distribution			1	2	3
Housing material of surge arrester	ABS	Silicone				
Pollution level of creepage distance (Standard IEC 60071-2)	IV			III or IV		
Energy absorption capability (kJ/kV.Ur within one minute)	-	-	1.15*	1.27*	2*	5
Pressure relief current ( kArms )	-	-	16	20		40

\* The other Specification is upon customer requisition



### Key Property of Silicone Housed ZnO Gapless Surge Arresters

#### ZnO Element

##### High energy absorption capability

ZnO block have non-linear characteristics which show the best material for surge arresters.

- When the surge arrester is in operation, it is subject to the  $U_c$  voltage and there is a small current flowing through the surge arrester. This small current is harmless to surge arresters or to the network.
- When strong impact comes, the ZnO materials will increasing its conductivity and conduct most energy to ground.

#### Silicone Housing

- Excellent Hydrophobicity property
- Not release toxic gas when burned
- Flame resistance

**Note:** Data given this prospect are for informative purpose only in continuous aim to improve our products we reserve the right of change

Authorized Dealer: