

# COMPACT LIGHTNING ARRESTOR



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# Compliance Standards

**ICAO** (Aerodrome design manual, part 5)

**IEC** (IEC99-4 and 61822 / § 5.7.4)

**FAA** (AC150/5345-10G / § 3.4.10 and AC150/5345-26D)



## Applications

CLA series are low-cost surge and lightning arrestors specially designed for airfield lighting application on runways, taxiways or aprons. They meet all international standards, and are efficient in protection against overvoltages and surges resulting from various origins.

External : atmospheric influences, static loads, lightning, induced surges.

Internal : Modification of the electrical stability of the installation in normal operation (switching oscillations) or irregular operation (electric arcing, ground faults).

## Advantages

- Operation security :

Large security margin between the ignition level and the insulation level of the installation: no risks of wrong operation, granted limit of the ignition voltage.

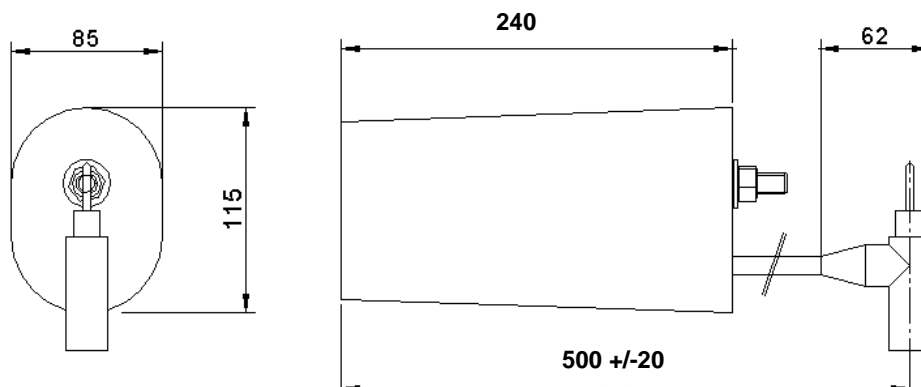
- Maintenance optimisation :

CLA can be easily added in any existing installations thanks to its standard male/female plug compliant with IEC and FAA standards. In case of failure the device is short circuited and can be easily disconnected for replacement.

- Internal constitution :

The CLA's active part consists of non-linear resistors (varistors) made of zinc oxide, protected with stratified glass-epoxyde cover, and moulded with polyurethane. Grounding terminal is made of a brass stud M12.

## Design



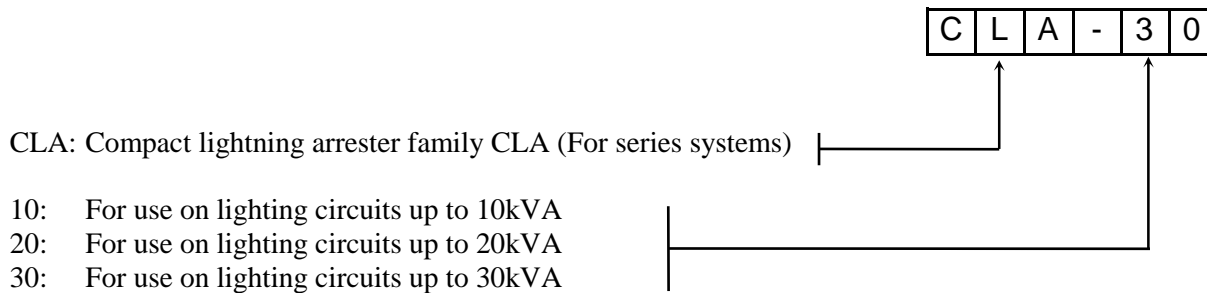
# Compact Lightning Arrestor - CLA



## ORDERING INFORMATION

The Compact Lightning Arrestor is identified by an ordering code which indicates its type and particularity.

Example : CLA-30 = Compact Lightning arrester for loops between 20 and 30kVA :



## PERFORMANCES :

Protection index: IP68

Operating temperature: -40°C to +60°C

Mass: approx. 5kg

Grounding stud: M12

Cable: Diam. 10.2mm / Size 8.4 sqmm

Plug T style, L823 Type 1 Class A

Electrical features :

Model	CLA-10	CLA-20	CLA-30
Permanent operation voltage	2.55 kV	5.10 kV	7.65 kV
Nominal voltage (at current 1 mA)	3 kV	6 kV	9 kV
Acceptable overvoltage (1 s)	3.4 kV	6.8 kV	10.2 kV
Nominal discharge current	10 kA	10 kA	10 kA
Residual voltage (10kA surge 1 µs)	9 kV	19 kV	29 kV
Max. surge current (4/10 µs)	65 kA	65 kA	65 kA

## MARKING :

On the bottom of the moulding are engraved: model (CLA-10 to 30), nominal voltage (3 to 9kV), nominal current (10 kA).