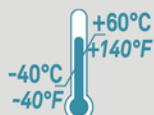


Compact Lightning Arrestor



**DISCHARGER SYSTEM
OVERCURRENTS AND FULMINATIONS
AT VARISTOR**

**SAFETY DEVIDE
COMPLIANT
WITH THE INTERNATIONAL
STANDARDS**

**COMPLIES
WITH ALL THE EXISTING SYSTEMS
POWERED BY CCR**

The watertightness overvoltage discharger modules CLA are the most cost-effective solution to implement overvoltage and atmospheric discharges protection that may damage the runways circuits, traffic routes and aprons.

These devices are designed in compliance with the international standards and provide effective protection against overvoltage and discharges of various kind. Built to offer great installation flexibility, they may adapt to any existing series circuit.

Compliance:

Aerodrome design manual, part 5

60099-4

61820-3-2

AC 150/5345-10 (§3.4.10)

AC150/5345-26

ICAO

IEC

FAA

ocem



ocem.com

GENERALITY - CLA

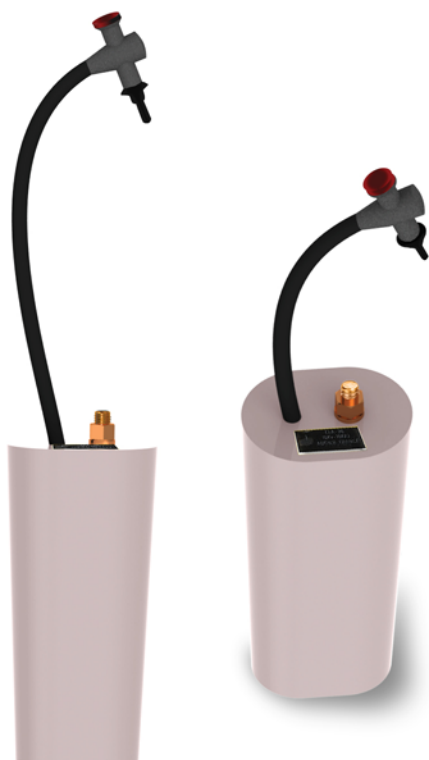
The CLA discharger devices are overvoltage and overcurrent discharger system of various kind: atmospheric phenomena, overloads, fulminations, inducted overvoltages. The CLA devices represent a safety element for temporary events of the supply system: instability of the electrical system under normal operating conditions (ex. current fluctuations related to switching phenomena) or abnormal operating conditions (e.g. electric arcs, earth faults).

The CLA discharger devices can be installed on each type of series circuit powered by CCR 6.6 A. Three different sizes allow the power circuit protection up to 30 kVA.

The CLA discharger devices can be installed on the primary supply circuit of the fixtures, at variable length intervals depending on design requirements.

The CLA discharger devices are fully compatible with the circuits powered by CCR (L-828/L-829) and with the circuit selectors (L-847). The devices can be installed on circuits that power incandescent or LED lamps, through the isolation transformer.

The colour of the body of the device identify the size, whose nominal technical data are given on a suitable plate applied near the connections



CONSTRUCTION DETAIL

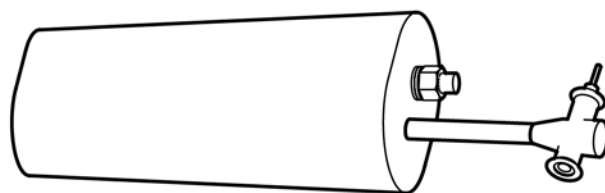
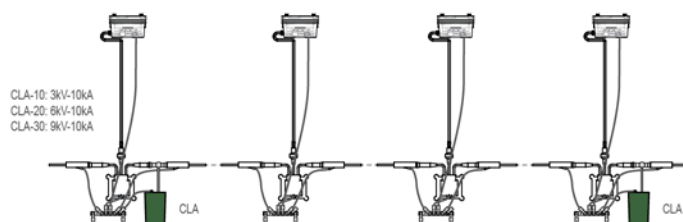
The CLA discharger devices are built ensuring a large safety margin between the intervention voltage level and the isolation degree of the system.

The CLA discharger devices can be easily installed on each existing circuit: the special socket/plug (compliant with the FAA and IEC rules) allows to insert the device on the primary circuit.

In case of intervention, the device is short-circuited and can be quickly replaced.

The active part of the CLA discharger device is made up of a non-linear resistor (varistor) made of zinc oxide, positioned inside an envelope in laminated epoxy glass. The body is protected by a thick printed layer.

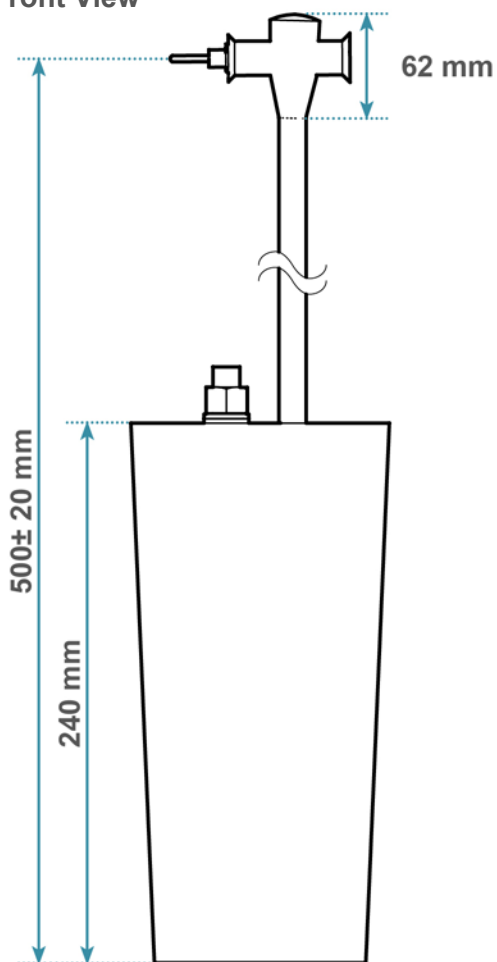
A connector with threaded pin (M12) allows a quick ground connection with a cable of at least 6 mm², for the leakage of overvoltages or discharges.



CHARACTERISTICS

- Degree of mechanical protection: IP68
- Operational temperature: -40° - +60°C
- Weight: 5 kg (approximate)
- Ground connection: M12 (min 6 mm²)
- Primary circuit cable: diameter 10.2 mm (section 8.4 mm²)
- Connector: connection "T" Style (M/F), L-823, Type 1, Class A
- Rated discharging current: 10 kA
- Maximum discharging current: 65 kA

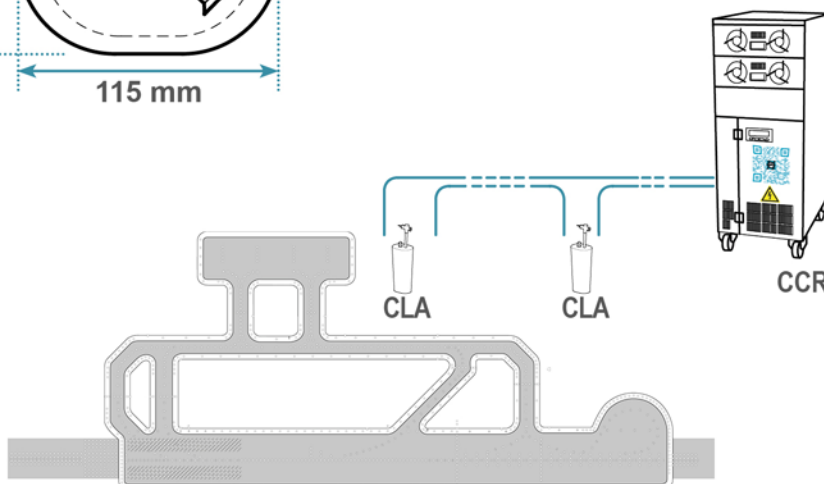
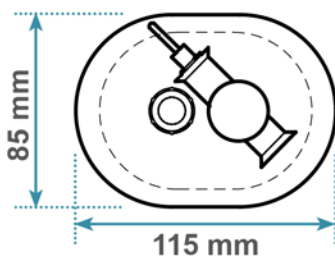
Front View



HOW TO ORDER

example: CLA - 30	
Maximum circuit power	
10	= For circuits up to 10 kVA
20	= For circuits up to 20 kVA
30	= For circuits up to 30 kVA

Side View



CLA -		10	20	30
Ambient conditions	Ambient temperature	MIN: -40 [°C] / -40 [°F]		
	Relative humidity (at 20°C)	MAX: +60 [°C] / 140 [°F]		
	Altitude asl	90 [%] non-condensing		
Electrical specifications	Permanent operating voltage	2.55 [kV]	5.10 [kV]	7.65 [kV]
	Rated voltage (with current 1 mA)	3 [kV]	6 [kV]	9 [kV]
	Allowed overvoltage (1 s)	3.4 [kV]	6.8 [kV]	10.2 [kV]
	Rated discharging current	10 [kA]		
	Residual voltage (10 kA/1 µs)	9 [kV]	19 [kV]	29 [kV]
	Maximum discharging current (4/10 µs)	65 [kA]		
	Series circuit			
Mechanical specifications	Degree of protection (EN 60529)	IP68		
	Strength degree/shock-resistance (EN 62262)	IK...		
	Materials	BODY: moulded polyurethane		
	Painting	Green	Yellow	Grey
	Plastic components	Halogen-free, CFC-free		
	Dimensions WxLxH	BODY: 115x85x240 [mm]		
	Weight	~5.0 [kg]		
Installation	Primary circuit connection socket	"T" Style (M/F), Type 1, Class A		
	Power cable	diameter: 10.2 mm - section: 8.4 mm ²		
	Protective conductor	M12 (min. 6 mm ²)		
	Maximum distance between two units	600 mm / 2000 ft		
	Insulation resistance	minimum 10 GΩ		

The Manufacturer reserves the right to modify or update the technical parameters at any time without prior notice to Customer.

