CTE MV/LV Containerised Transformer Substation

CTE MV/LV Outdoor Containerised Substation:

- Manufactured for outdoor and construction site installation;
- Free-standing containerised unit, easy to move and turnkey installed;
- Provided with M.V. switchgear, transformer and L.V. switchgear and possibly APFC;
- Equipped with safety equipment;
- Designed to suit the customer's requirements;
- · Doesn't require a building permit.

Safety and reference standards

MV/LV transformer substations comply with European and International Standards (CEI/IEC).

Electrical Features

Transformer compartment

The MV/LV transformer substation is supplied with a cast resin transformer; oil or air insulated transformers are also available on request. The transformer installed may be from 100kVA to 4500kVA.

L.V. Switchgear Main Electrical Features

Operating voltage	400 Vca
Rated current	6300 A
Insulation voltage	1000 V
Rated short-term withstand current	105 kA
Rated peak withstand current	231 kA
Rated impulse voltage	12 kV
Rated frequency	50-60 Hz



Medium Voltage Switchgear Main Electrical Features

12 kV	17,5 kV	24 kV	36 kV	
28 kV	38 kV	50 kV	70 kV	
75 kV	95 kV	125 kV	170 kV	
400 ÷ 1250 A	400 ÷ 1250 A	400 ÷ 1250 A	400 ÷ 800 A	
12,5 ÷ 20 kA	12,5 ÷ 20 kA	12,5 ÷ 20 kA	16 ÷ 20 kA	
20 kA	20 kA	20 kA		
	28 kV 75 kV 400 ÷ 1250 A 12,5 ÷ 20 kA	28 kV 38 kV 75 kV 95 kV 400 ÷ 400 ÷ 1250 A 12,5 ÷ 12,5 ÷ 20 kA	28 kV 38 kV 50 kV 75 kV 95 kV 125 kV 400 ÷ 400 ÷ 400 ÷ 1250 A 12,5 ÷ 12,5 ÷ 12,5 ÷ 20 kA 20 kA 20 kA	



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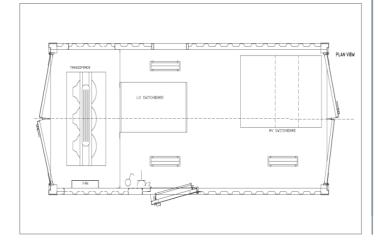
Features of Construction

Service and environmental conditions

External temperature (min/max)	-20° ÷ +50 C°
Irradiation	500 w/m²
Maximum wind speed	140 km/h
Maximum snow load on the horizontal projection at 1000 m	220 Kg/m²
Severe seismic activity	AF 5
External Protection class	IP 54

STANDARD DIMENSIONS (ISO) Other dimensions available on request

Container (feet)	10	15	20	25	30	40
Length (mm)	2990	4590	6055	7500	9125	12190
Height (mm)	2635	2635	2635	2635	2635	2635
Width (mm)	2435	2435	2435	2435	2435	2435



Fittings & Accessories

Accessory electrical equipment

- · Fixed PFC;
- UPS (Uninterruptable Power Supply);
- Automatic PFC (optional);
- Fire detection and extinguishing (optional).

Internal accessories and auxiliary installations

- Lighting installation with electric switch;
- Interlocked socket 230 Volt 16A;
- Accident prevention accessories: powder extinguisher, recharging emergency lighting, insulated carpet, warning notice, substation electrical drawing.

External cabinet accessories

- Warning horn (IP66) suitable for long time continuous activation;
- · Flashing warning light (IP55);

