

MV/LV Containerised Transformer Substation


Cotti e Marchi Srl reserves the right to modify at any moment the product described

MV/LV CONTAINERISED TRANSFORMER SUBSTATION (CTR):

- Ideal for all outdoor installations.
- Self-supporting monobloc structures, fully wired, roof and side walls insulated.
- Generally divided in transformer compartment and MV/LV switchgears compartment.
- Equipped with all the accessories and equipments for safety and emergency.
- Realized according to the specific requirements of the operating area.
- Complying with all the international applicable regulations (IEC).
- Fast installation and commissioning, building permit not required.

ELECTRICAL FEATURES
TRANSFORMER

Substation is equipped with a cast resin transformer, oil or air insulated, with power up to 4500 kVA.

MEDIUM VOLTAGE SWITCHGEAR

Rated voltage	12 kV	17,5 kV	24 kV	36 kV
Power frequency withstand voltage (50-60 Hz 1 min.) towards the ground and between phases	28 kV	38 kV	50 kV	70 kV
Rated lightning impulse withstand voltage towards the ground and between phases	75 kV	95 kV	125 kV	170 kV
Rated current	400+ 1250 A	400+ 1250 A	400+ 1250 A	400+ 800 A
Short time withstand current 1 sec on main circuits and earth circuits	12,5+ 25 kA	12,5+ 25 kA	12,5+ 25 kA	16+ 25 kA
Internal arc withstand 1 sec	12,5+ 21 kA	12,5+ 21 kA	12,5+ 21 kA	16 kA

LOW VOLTAGE SWITCHGEAR

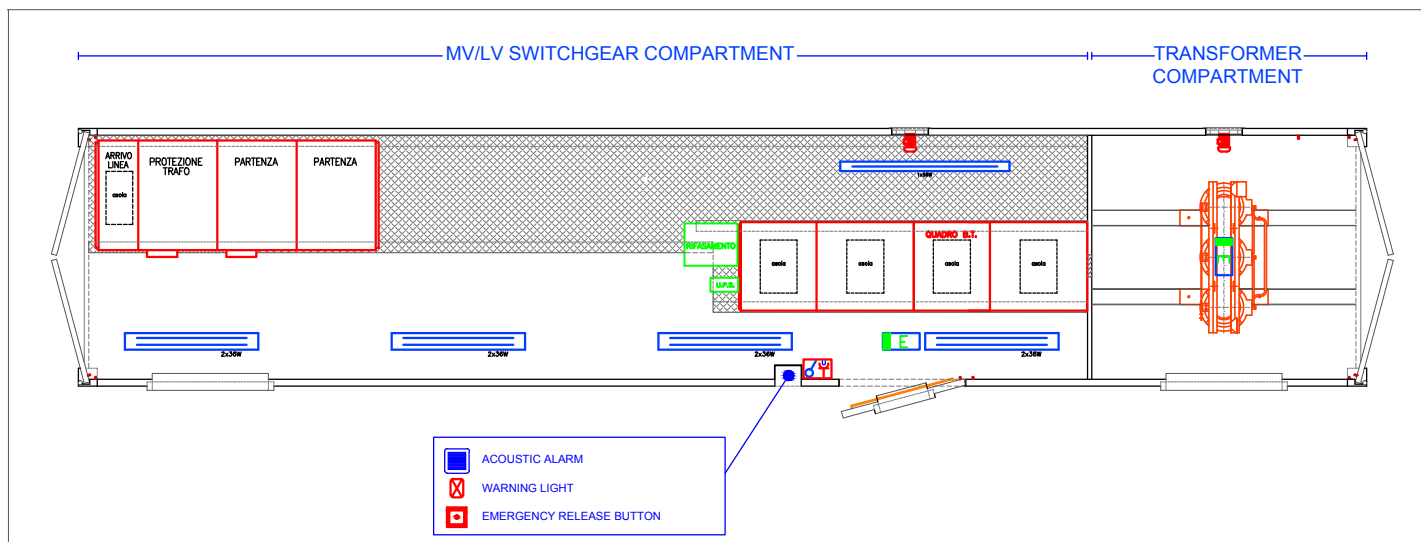
Rated voltage up to	1000 Vca - 1000Vac 1500 Vcc - 1500 Vdc
Rated current	6300 A
Rated short circuit current	100 kA
Rated short-term withstand current	100 kA
Rated peak withstand current	220 kA
Rated impulse voltage	8 kV
Rated frequency	50-60 Hz

CTR

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DIMENSIONS	Length (mm)	Width (mm)	Height (mm)
15' (feet)	4590	2435	2635
20'	6055	2435	2635
25'	7500	2435	2635
30'	9125	2435	2635
40'	12190	2435	2635

INTERNAL VIEW



OPERATING FEATURES

External temperature	-20/+50°C	Maximum wind speed	140 km/h
Internal temperature	-10/+40°C	Seismic qualification	AF5
Irradiation	500 W/m2	Maximum snow load allowable	220 kg/m2
External Protection class	IP54	Maximum humidity	2635

ACCESSORY EQUIPMENTS (*optional)

- UPS (Uninterruptable Power Supply);
- Fixed PFC;
- Automatic PFC*;
- Fire detection and extinguishing*.
- Conditioning system*.

INTERNAL ACCESSORIES

- Interlocked socket 230 Volt - 16A;
- Powder extinguisher;
- Emergency lighting;
- Insulated carpet;
- Electrical drawings;
- Warning notice*.

EXTERNAL ACCESSORIES

- Warning horn (IP66);
- Flashing warning light (IP55);
- Emergency button under glass.