

“CSS-Kiosk”

URBAN COMPACT SUBSTATION

“CSS-Kiosk” compact substation substations are designed for cable and overhead networks utilized by utilities or industry.



Due to small dimensions this substation is an excellent solution for places like housing estates or hard-to reach localizations not available for heavy construction equipment.



General characteristics

“CSS-Kiosk” substations are designed for partial underground installation for transformation and distribution of energy for voltage up to 24kV . They may be equipped with SF6 MV RMU only (for MV derivation lines,) or with SF6 MV RMU and LV transformer protection board for transformers up to 1250 kVA.

These substations are erected, equipped and routine tested in factory, and consigned to the customers ready for their installation and switching-on.

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Substations of the CSS-Kiosk series are in accordance with IEC 62271-202, having the following advantages:

- Design verified through type tests performed in accordance with standards.
- Building and assembling under quality system in accordance with ISO 9001 standard.
- Routine tests performed in factory for the whole substation.
- Due to small dimensions CSS-Kiosk substations are transported to destination in one piece, ready for foundation.
- The operations on site, for the put in service of the substation, are limited to its positioning and the eventual installation of the transformer and MV and LV connections only.



Technical characteristics

- CSS-Kiosk concrete substations are produced using specific and tested technique system for concrete prefabrication. The enclosure is composed by a vibrated and reinforced concrete self-standing single-block. The quality of the concrete is assured by using of automatic mixer and preparation system.
- The internal structure is made of double high quality electro-welded metal grid electrically interconnected and linked to the grounding system assuring the electric equipotentiality of the enclosure.
- A particular anti-moisture is added to the concrete to eliminate its natural porosity making it waterproof.
- The external side of the walls are covered with a layer of water-repellent and anti-acid product to protect the enclosure against the surrounding ground pollution.
- The walls have been designed to be resistant to lateral ground thrusts also with low cohesion coefficient, with considerable accidental overloads and superficial waterbed. The roof structure has been designed to be resistant to a uniformly distributed normal overload
- Substations are equipped with internal electric plant including one light point and one socket.



Ventilation system

The natural ventilation system has been studied to assure the correct cooling of the transformer and the declared thermic class. The enclosures have a rated thermic class 20 according with IEC 62271-202 standard.



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