THREE-PHASE VOLTAGE TRANSFORMER SET FOR STEP DOWN SUBSTATION

- ***Outdoor use***
- ***MV connection via plug-in socket***
- ***Metal enclosed anti- explosion safety design***
- ***Separate neutral and ground circuit***
- ***LV cabinet for disconnecting and switching of LV side***
- ***Fuse and switch operation display***
- ***Reliable system to isolate primary or secondary faults that may occur in the installation.***

These three-phase VT sets have been designed with ENEDIS to meet the voltage measurement needs of HV/MV primary substations, as part of the implementation of the compensated neutral HV system.

A VT set consists of 3 plug-in voltage measuring transformers, in a galvanized steel enclosure, and a LV cabinet for disconnecting, interrupting LV circuits and signalling blown fuse, or interruption of LV circuits.

This VT set does not require any special maintenance.

Technical data

Highest voltage for equipment	24 kV
Power-frequency withstand voltage	50 kV
Lightening impulse test voltage	125 kV
Primary current Ipn	15 000/√3 ou 20 000/√3 V
Secondary current Isn	100/√3 V
Frequency	50 Hz
Rated output	30 VA
Accuracy class	CL1 - CL0.5
Ambient temperature	- 25°C to + 40°C
Spare LV fuse set	Delivered free with the VT set
Post insulators VT set / platorm	Delivered free with the VT set
Protection Index	IP2X Box - IP65 LVBox
Standards	IEC - IEEE - CSA - AS - BS -
CCTP ENEDIS	HM-23/03/004/C Additif 1

Accessories / Options out of seope of contact

Set of 3 BIC collars for 50 mm2 cable	Type CS44
Set of 3 BIC collars for 95 mm2 cable	Type CS44
Primary voltage Upn	10 000/√3 V to 20 000/√3
Assembly of the LV cabinet on the left	
Socomec fuse holder and auxiliary contact	

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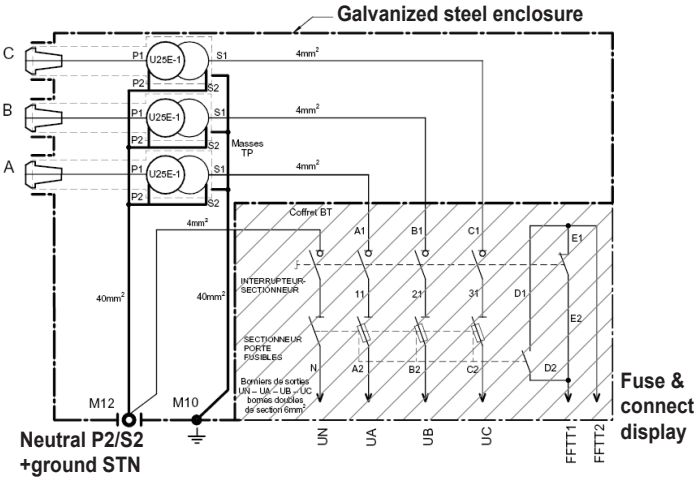
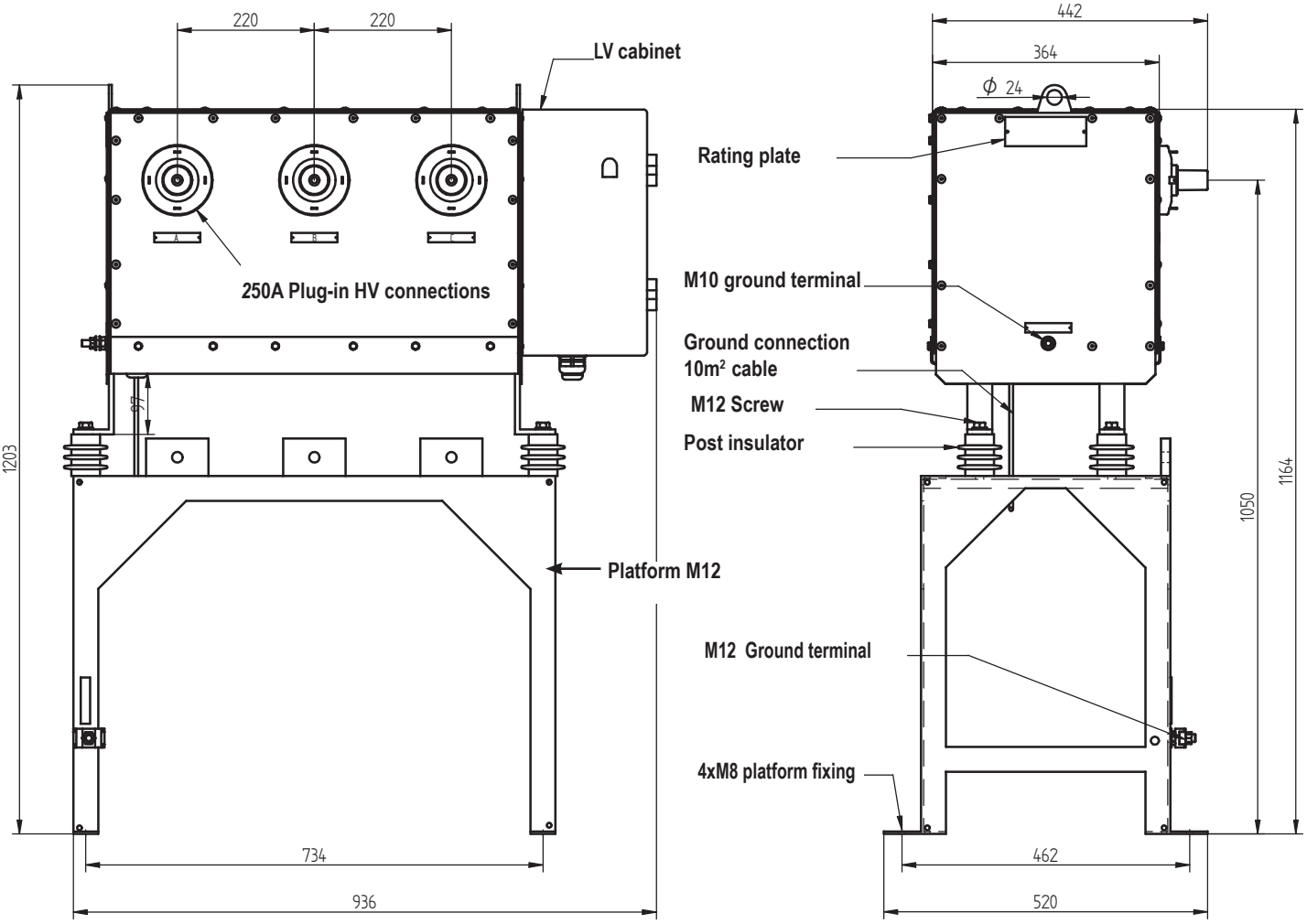
Selection table

Modele	Reference	Ratio	Codet ENEDIS
VT set V0	V6480500	20000/√3 // 100/√3 30VA CL1	6480500
VT set V1	V6480501	15000/√3 - 20000/√3 // 100/√3 30VA CL1	6480501
VT set V2	V6480502	20000/√3 // 100/√3 30VA CL0.5	6480502
VT set V3	V6480503	15000/√3 - 20000/√3 // 100/√3 30VA CL0.5	6480503

Packing

Individually packed in a wooden crate :
127x80x168mm
Net weight : 160 kg
Gross weight : 260 kg

Installation

• The VT set + plateform is delivered on a Europe pallet with a set of post insulator for VT set / ground insulation and a spare set of LV fuses. VT set V2 is 20kV wired.
• Handle the VT set without its platform by either using top lifting rings or with forklift inserted between the 4 legs of the VT set.
• Installation leaflet C1158 supplied inside LV cabinet deals with:
- the mechanical fastening of the VT set on its platform
- the electrical connection
- modification of VT transformation ratio when applicable
- Changing of a VT.

Electrical diagram (V1 cabinet)