



Project References

Dry type transformers & inductors

Applications

- Renewable Energy (wind & solar)
- Traction (passenger and freight rail)
- Inductors
- Offshore Oil, Gas and Mining (marine)
- Petrochemical
- Industrial
- Non-ordinary Seismic Conditions
- High and Low Temperature Conditions



Dry type transformers

Production range

MV Distribution 100kVA to 3150kVA and
insulation class < 36kV Standard or 'Eco' losses

E2, C2, F1 in compliance with CEI – IEC 60076-11
(May 2004 Edition) Standards

MV Special Transformers & Inductors 16MVA AN or
22MVA AF - Insulation class < 52kV

Enclosures IP21 - IP56 – ANAF/ AFWF



LV Special Transformers & Inductors

25 kVA - 5MVA AN / 8MVA AF

Insulation class <1.1kV

Enclosures IP21 - IP56 – ANAF/ AFWF

Dry type transformers

Production sample

Photovoltaic Power Plant

Rated Power	110kVA
Primary Voltage	400V
Secondary Voltage	2 x 253V
Frequency	50/60Hz
Insulation Class	H
Overtemperature Class	F
Vector Group	Dd0yn11



LV Transformer

Dry type transformers

Production sample

Induction Ovens

Rated Power	480kVA
Primary Voltage	400V
Secondary Voltage	70V
Frequency	50Hz
Insulation Class	H
Overtemperature Class	H
Vector Group	Yd11
Cooling	AN



LV HC Transformer

Dry type transformers

Production sample

Wind Power Converter

Number of Phases	3
Cooling Type	Indirect Water
Secondary Voltage	2 x 253V
Inductance	60 μ H $\pm$ 5%
Rated Current	2200 Arms
Insulation Class	H
Conductor Material	Aluminum
Rated Switching Frequency	2500 Hz $\pm$ 10%



Water Cooled Reactor

Dry type transformers

Production sample



LV Transformer

Marine Distribution Transformer

Rated Power	660kVA
Primary Voltage	690V
Secondary Voltage	400V
Frequency	50/60Hz
Insulation Class	H
Over Temperature Class	H
Vector Group	Ynd11
Cooling	AN
Protection Box	IP44

Dry type transformers

Production sample



LV Transformer

Distribution Transformer

Rated Power	250kVA
Primary Voltage	400V + Tap
Secondary Voltage	500V
Frequency	50/60Hz
Insulation Class	H
Overtemperature Class	H
Vector Group	Dd0
Cooling	AN
Protection Box	IP23
Enclosure	Galvanized

Dry type transformers

Production sample



LV Transformer

Rectifier Transformer

Rated Power	101,5kVA
Primary Voltage	400V
Secondary Voltage	6 x 27,2V
Phase-Neutral	
Frequency	50/60Hz
Insulation Class	H
Overtemperature Class	H
Vector Group	Dyn1yn7
Cooling	AN

Dry type transformers

Production sample



LV Transformer

Three-Phase Transformer

Rated Power	750kVA
Primary Voltage	315V
Secondary Voltage	400V
Frequency	50/60Hz
Insulation Class	H
Overtemperature Class	F
Vector Group	YNyn0

Dry type transformers

Production sample

Single-Phase Reactor

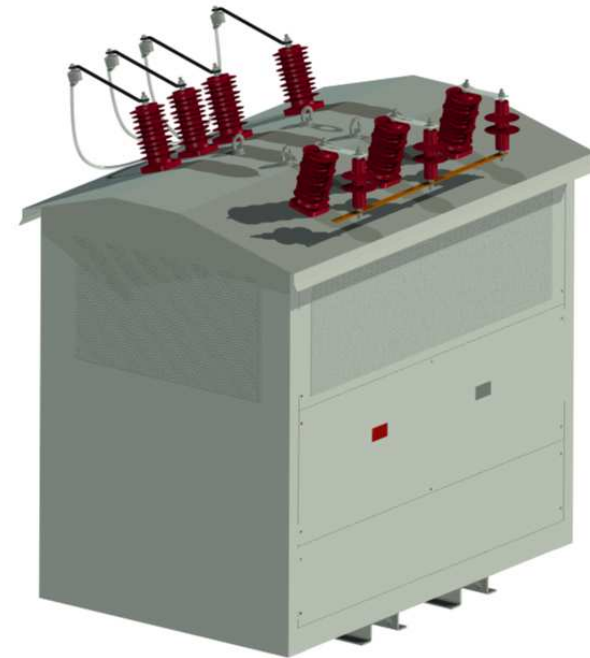
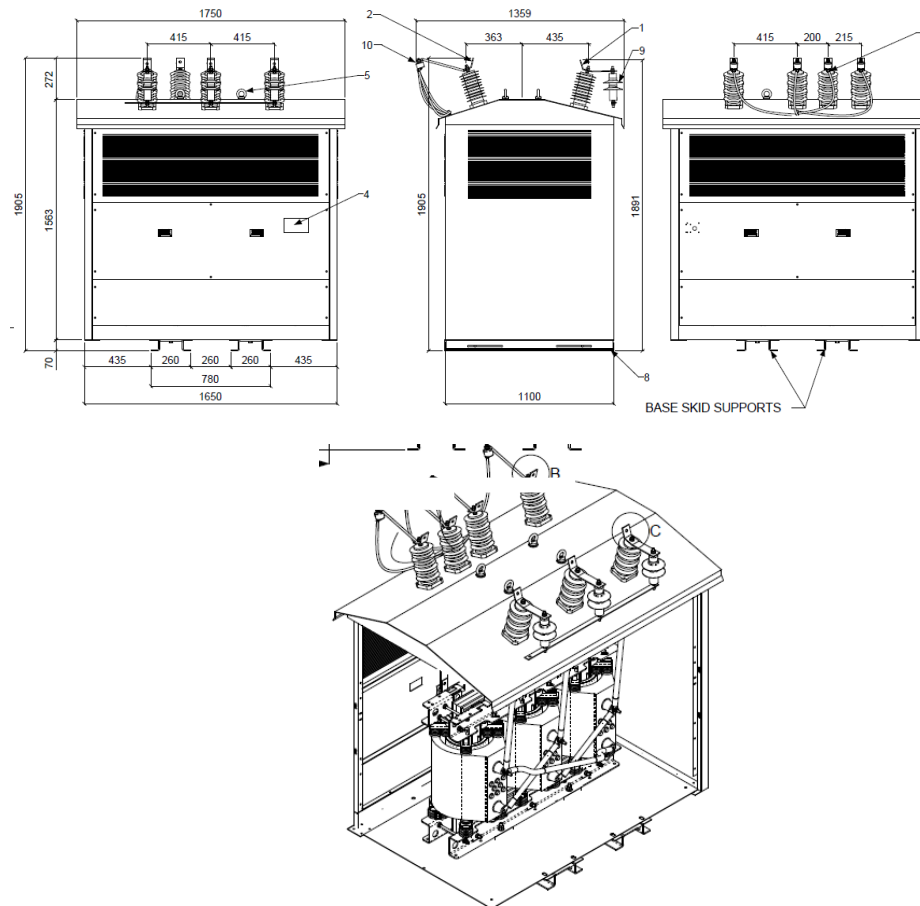
Inductance	0,8mH
Nominal Current	2500A
Peak Current	3500V
Frequency	50Hz
Insulation Class	H
Overtemperature Class	H
Conductor Material	Copper
Cooling	AN



LV Inductor

Dry type transformers & Inductors

Pole-mounted Transformer



Dry type transformers

Project Reference



Nominal power: 850KVA
Transformer type: Step-up
Input voltage: 690V
Output: 20.000V
Cooling: AN
98 Transformers

Customer: **IBERDROLA**
Wind farm name: **La Venta II**
Country: **Oaxaca - Mexico**
City: **Juchitan de Zaragoza**
Commissioning: **2006/12**
98 Turbines: **Gamesa G52/850**
Total nominal power: **83.300kW**



Dry type transformers

Project Reference



Customer: **ESCO – European Salt Company**
Salt mine: **Rheinberg**
Country: **Germany**
Commissioning: **2008**

Nominal power: 4.000KVA
Transformer type: Step-up
Input voltage: 24.000V
Output: 5.250V
Cooling: AN
3 Transformers



Dry type transformers

Project Reference

Location: **England - Ampney Crucis**
Type of installation: **Solar**
On/offshore: **On**
Capacity: **12,5MW**
Acreage: **75** (approx hectares: **30**)
Date of 1st power generation: **2014, July**



Nominal power: 630kVA and 125KVA
Transformer type: Step-up
Input voltage: 270V
Output: 20.000V
Cooling: AN
12 Transformers

Dry type transformers

Project Reference

Location: **Guardian Towers**
Type of installation: **Building**
City: **Abu Dhabi**
Country: **United Arab Emirates**
Date of commissioning: **2010**



Nominal power: 1.500kVA
Input voltage: 11.000V
Output: 415 V
4 Transformers

Dry type transformers

Project Reference

Customer: **SOUTH KOREA YARD**
Vessel type: **Container ship**
Country: **South Korea**
Size: **11.000 TEU**



Nominal power: 3.500KVA
Transformer type: MV cast resin
Input voltage: 6.600V
Output: 2x715V
Cooling: AFWF
4-6 Propulsion transformers for vessel



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