



Transformer technical data sheet

ABB Ltd. Chonan Korea

| Project : | Wind Park Santa Cruz / Baltra Phase 1 | Project No. | Date | Rev |
|--------------|---------------------------------------|-------------|-------------|-----|
| | | Q11773 | 29-Nov-2011 | 0 |
| ABB Dgn.No : | 9010863A | Dgn. By : | KS | |

General Specification

| | |
|--|--|
| Transformer Type | Dry Type / Cast Resin |
| Standard | IEC 60076-11 Dry Type Power Transformers |
| Installation | Outdoor |
| Phase | 3 |
| Frequency | [Hz] 60 |
| Rated Power | [kVA] 900 |
| Rated High Voltage | [V] 13800 |
| Rated Low Voltage | [V] 690 |
| Tapping on HV (Off circuit tap changer) | ± 2 steps X 2.5 % |
| Vector group | YNd1 |
| Type of cooling | AN |
| Insulation class (HV/LV) | F/F |
| Average Winding Temp. rise (HV/LV) | [K] 100/100 |
| Conductor Material (HV/LV) : C-Copper A-Aluminum | A/A |
| Ambient Temperature (Max./ Monthly / Yearly) | [°C] 40/30/20 |
| Altitude (below -) | [m] 1000 |
| E/C/F class | E2/C2/F1 |

Technical Characteristic

at AN, IP00, 120°C

| | | |
|---|-------------|--------------------|
| No load loss | [W] 2300 | +15% IEC tolerance |
| Load loss | [W] 8100 | +15% IEC tolerance |
| Impedance | [%] 6 | ±10% IEC tolerance |
| BIL (Basic Impulse Withstand Level) (HV/LV) | [kV] 95 / - | |
| Power Frequency withstand Level (HV/LV) | [kV] 38 / 3 | |
| Sound Pressure Level (LpA) at 1.0m | dB(A) 64 | |

Overall Dimension TR./ Enclosure(if any)

| | | |
|--------|----------------------|-------------|
| Length | (±5% allowance) [mm] | 1542 / 2000 |
| Width | (±5% allowance) [mm] | 1000 / 1600 |
| Height | (±5% allowance) [mm] | 1680 / 2100 |
| Weight | (±5% allowance) [kg] | 2160 / 500 |

Accessories

- Lifting Lug
- Rating & Diagram Plate
- Temperature controller - T-154
- Temperature sensor - PT-100Ω (1pc/phase, total 3 pc)
- Earthing screen between LV and HV
- Enclosure - IP44
 - Outer surface color RAL 7035 100μm
 - Bolted cover type
 - HV Undrilled cable entry plate : Bottom
 - LV Undrilled cable entry plate : Bottom

Notes

- Other accessories (not mentioned in the above statement) are not included.
- Cable connection material (eg. cable lug, flexible bus bar) are not included.
- Tests : Routine tests according IEC.
- The tolerance of all guarantee values are applied to IEC standard.