ORIENT POWER

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Providing high-quality power to the world



Zhuhai OTE Electronic Technology Co.,Ltd.

## 1. Transformer datasheet / 变压器技术参数表

| ITEM / 类别 | | PROVIDED / 供应商提供值 | Remark |
|---|---|---|---|
| **Type/ 型式** | | **SFZ-63000/110/33** | |
| Standard / 执行标准 | | IEC60076 | |
| Performance / 变压器参数 | | | |
| Type / 型式 | | Oil immersed type，three phase, rubber bag with conservator<br>油浸式，三相，胶囊储油柜 | Mineral oil |
| Service / 使用环境 | | Outdoor / 户外 | |
| Ambient temperature / 环境温度 | | Max. +40℃<br>Min. -30℃ | |
| Altitude / 海拔 | | <1000m | |
| Rated Voltage（kV）/ 额定电压 | | 110±9x1.78%/33 | |
| Rated Power（HV/LV）(KVA)<br>额定容量 | | 50000/63000 | 63000KVA@ONAF<br>50000kVA@ONAN |
| Tapping / 调压方式 | | ON-load / 有载调压 | |
| Tapping range / 调压范围 | | ±9x1.78% | |
| Taping positions / 调压级数 | | 19 | |
| Tapping location / 调压位置 | | HV WINDING./高压绕组 | |
| Rated Frequency /额定频率 | | 50Hz | |
| Cooling Method / 冷却方式 | | ONAN/ONAF | |
| No-load losses / 空载损耗 | | 24.5KW | |
| Load losses / 负载损耗@75℃ | | 258KW@63MVA | |
| MinimumvalueofthemaximumefficiencyindexPEIcalculated inaccordancewithDirective2009/125/EC (point4.3) | | 99. 745 | |
| Vector group / 连接组别 | | YNd11 | |
| Insulation grade / 绝缘耐热等级 | | A | |
| Sound level/噪音 | | 78dB(A)<br>Sound pressure level<br>声压级 | ≤78dB under no-load operation (2m from the fuel tank) |
| Impedance / 阻抗电压 | | | |
| HV-LV / 高压-低压 | | 12%@63MVA | |
| Insulation level / 绝缘水平 | | | |
| HV winding<br>高压绕组 | Basic Lighting impulse/<br>雷电冲击水平 | 550kV | |

| | | | |
|---|---|---|---|
| | Power frequency withstand voltage/ 工频电压 | 230kV | |
| LV winding 低压绕组 | Basic Lighting impulse/ 雷电冲击水平 | 170kV | |
| | Power frequency withstand voltage/ 工频电压 | 70kV | |
| Temperature rise / 温升限值 | | | |
| Winding Average K / 绕组平均温升 | | 65K@40℃ ambient temperature | |
| Top oil K/ 顶层油温升 | | 60K@40℃ ambient temperature | |
| Other information/其他信息 | | | |
| H. V. Terminal 高压端子 | | OIP bushing 油纸电容式套管 | |
| O. L.T.C. 有载调压开关 | | Type/型号: CM2III-600Y/72.5B-10191W Operating mechanism/操作机构：CMA-7 Remote controller (AVR)：ET-SZ6 | Shanghai Huaming，China 上海华明，中国 |

# Transformer accessories data sheet

| **ITEM / 类别** | **PROVIDED / 供应商提供值** | **Remark** |
|---|---|---|
| **Type/ 型式** | **SFZ-63000/110** | |
| Standard / 执行标准 | IEC60076 | |
| Accessories list and information 组件清单及信息 | | |
| H.V. Bushing / 高压套管 | | |
| Type / 型式 | OIP 油纸电容式 | |
| Manufacturer / 制造商 | Nanjing Zhida, Xi an Shendian,China or equal 南京智达，西安神电，中国或等同 | BRDLW-126/630-4 (BRDLW-72.5/630-4) |
| Quantity / 数量 | 3 set/只（中性点 1 set/只） | |
| Insulation level / 绝缘水平 | LI/AC - 550/230（中性点 LI/AC - 325/140） | |
| L.V. Bushing / 低压套管 | | |
| Type / 型式 | Pure porcelain | |

| | | |
|---|---|---|
| | 纯瓷式 | |
| Manufacturer / 制造商 | Hebei Tianhua,China or equal<br>河北天华，中国或等同 | FBDW-40.5/2000-4 |
| Quantity / 数量 | 3 set/只 | |
| Insulation level / 绝缘水平 | LI/AC - 170/70 | |
| Oil thermometer / 油温计 | | |
| Type / 型式 | BWY type | With remote display<br>带远端显示器 |
| Manufacturer / 制造商 | Fujian Lide，China or equal<br>福建力得，中国或等同 | |
| Quantity / 数量 | 2 set/只 | One for fans control circuit<br>一个用于风扇控制回路 |
| | | |
| Winding thermometer / 绕组温度计 | | |
| Type / 型式 | BWR type | With remote display<br>带远端显示器 |
| Manufacturer / 制造商 | Fujian Lide，China or equal<br>福建力得，中国或等同 | |
| Quantity / 数量 | 1 set/只 | |
| | | |
| Buchholz relay / 气体继电器 | | |
| Type / 型式 | QJ type | |
| Manufacturer / 制造商 | Shenyang Delin，China or equal<br>沈阳德林，中国或等同 | |
| Quantity / 数量 | 1 set/只 | |
| | | |
| Oil level indicator /油位计 | | |
| Type / 型式 | YZF type | |
| Manufacturer / 制造商 | Shenyang Delin，China or equal<br>沈阳德林，中国或等同 | |
| Quantity / 数量 | 1 set/只 | |
| | | |
| Pressure relief valve /压力释放阀 | | |
| Type / 型式 | YSF type | |
| Manufacturer / 制造商 | Shenyang Delin，China or equal<br>沈阳德林，中国或等同 | |
| Quantity / 数量 | 1 set/只 | |