

# Technical Specification and Drawing

## 1600KVA-11/0.55KV

### DISTRIBUTION TRANSFORMER

#### No.2014016

**JIANGSHAN SCOTECH ELECTRICAL CO., LTD**

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## Technical Data Sheet

| No. | Basic information   | Unit | Guaranteed                            |
|-----|---------------------|------|---------------------------------------|
| 1   | Manufacturer        |      | Jiangshan Scotech Electrical Co.,Ltd  |
| 2   | Standard            |      | IEC60076                              |
| 3   | Type                |      | Oil immersed distribution transformer |
| 4   | Installation        |      | Outdoor                               |
| 5   | Altitude            | M    | $\leq 1000$                           |
| 6   | Rated power         | KVA  | 1600                                  |
| 7   | Primary voltage     | KV   | 11                                    |
| 8   | Secondary voltage   | KV   | 0.55                                  |
| 9   | Vector group        |      | Dyn11                                 |
| 10  | Rated Frequency     | HZ   | 50                                    |
| 11  | Cooling             |      | ONAN                                  |
| 12  | Number of windings  |      | 2                                     |
| 13  | Number of phases    |      | 3                                     |
| 14  | Type of tap Changer |      | NLTC                                  |
| 15  | Tapping range       |      | $\pm 2*2.5\%$ @primary side           |

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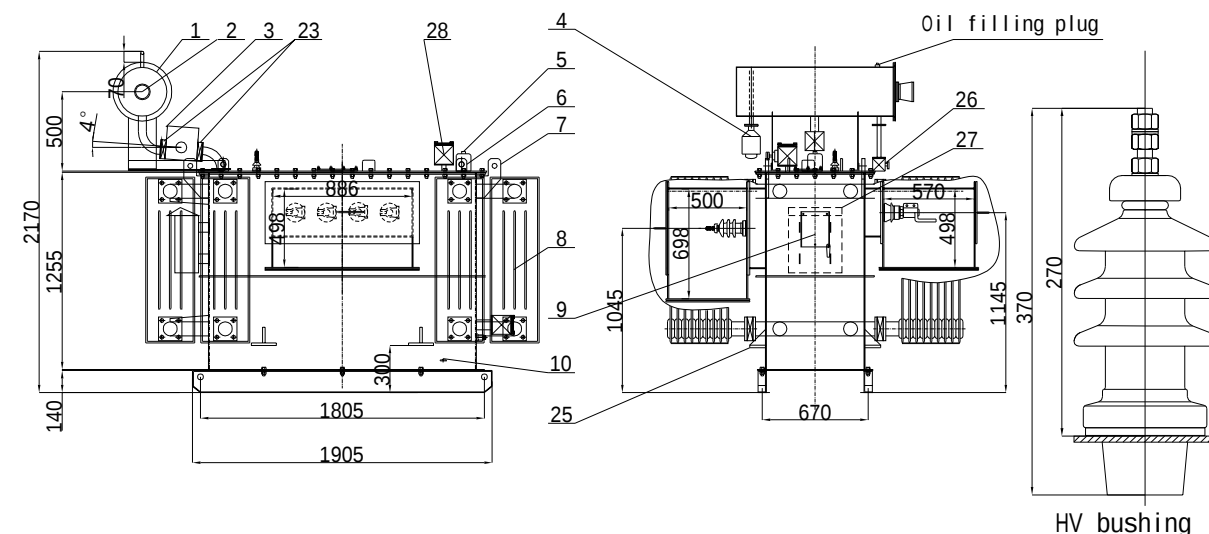
|      |                                                                  |    |                                    |
|------|------------------------------------------------------------------|----|------------------------------------|
| 16   | Impedance                                                        | %  | 5.5                                |
| 17   | No-load loss                                                     | KW | 2.75                               |
| 18   | On load loss                                                     | KW | 13.5                               |
| 19   | <b>Basic insulation level</b>                                    |    |                                    |
| 19.1 | Basic impulse lighting withstand voltage-<br>primary side(BIL)   | KV | 75                                 |
| 19.2 | Power Frequency withstand voltage-<br>primary side               | KV | 28                                 |
| 19.3 | Basic impulse lighting withstand voltage-<br>secondary side(BIL) | KV | N/A                                |
| 19.4 | Power Frequency withstand voltage-<br>secondary side             | KV | 5                                  |
| 19.5 | Oil temperature rise @<br>rated service condition                | K  | 50                                 |
| 19.6 | Winding temperature rise @<br>rated service condition            | K  | 55                                 |
| 20   | <b>Material</b>                                                  |    |                                    |
| 20.1 | Winding material                                                 |    | Cu                                 |
| 20.2 | Core material                                                    |    | Grain oriented silicon steel sheet |
| 20.3 | Coolant material                                                 |    | PCB free transformer mineral oil   |
| 20.4 | HV bushing material                                              |    | Porcelain                          |
| 20.5 | Neutral bushing material                                         |    | Porcelain                          |
| 20.6 | LV bushing material                                              |    | Porcelain                          |

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|           |                                                           |            |                                             |
|-----------|-----------------------------------------------------------|------------|---------------------------------------------|
| 21        | <b>Dimension and weight</b>                               |            |                                             |
| 21.1      | Transport Dimension(L*W*H)                                | mm         | As per drawing                              |
| 21.2      | Transport Weight                                          | kg         | As per drawing                              |
| 21.3      | Overall Dimension(L*W*H)                                  | mm         | As per drawing                              |
| 21.4      | Total Weight                                              | kg         | As per drawing                              |
| 22        | <b>Others</b>                                             |            |                                             |
| 22.1      | Location of HV bushings                                   |            | Mounted on side of tank<br>inside cable box |
| 22.2      | Location of LV bushings                                   |            | Mounted on side of tank<br>inside cable box |
| 22.3      | Location of Neutral bushings                              |            | Mounted on side of tank<br>inside cable box |
| <b>23</b> | <b>Accessories</b>                                        | <b>QTY</b> | <b>Remarks</b>                              |
| 23.1      | Hot dip galvanized radiator                               | 1          | /                                           |
| 23.2      | Oil temperature indicator with<br>alarm and trip contacts | 1          | /                                           |
| 23.3      | Pressure relief valve                                     | 1          | /                                           |
| 23.4      | Oil level indicator                                       | 1          | /                                           |
| 23.5      | Buchholz relay with alarm and<br>trip contacts            | 1          | /                                           |
| 23.6      | Oil conservator                                           | 1          | /                                           |
| 23.7      | Breather                                                  | 1          | /                                           |

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|       |                     |   |                              |
|-------|---------------------|---|------------------------------|
| 23.8  | Oil sample valve    | 1 | /                            |
| 23.9  | Oil drain valve     | 1 | /                            |
| 23.10 | Oil filling valve   | 1 | /                            |
| 23.12 | Earthing terminal   | 1 | /                            |
| 23.13 | Terminal box        | 1 | Stainless steel              |
| 23.14 | Lifting lugs        | 4 | For top cover and whole unit |
| 23.15 | Skid base           | 1 | /                            |
| 23.16 | No load tap changer | 1 | /                            |

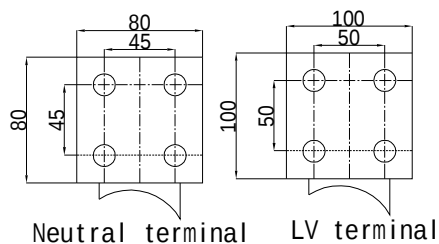
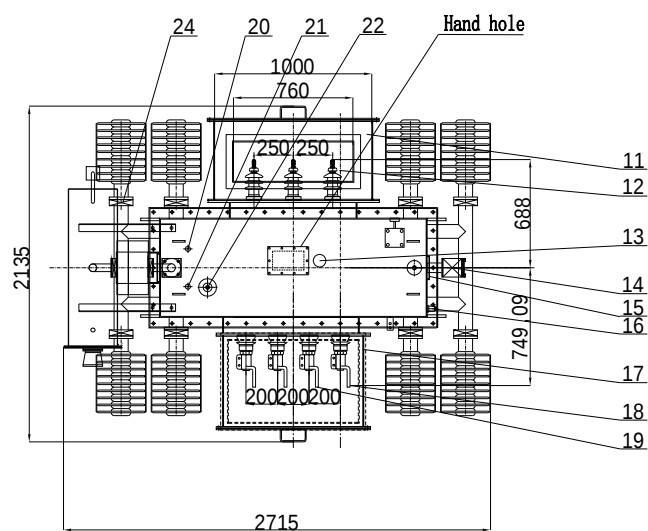


Weight(KG)

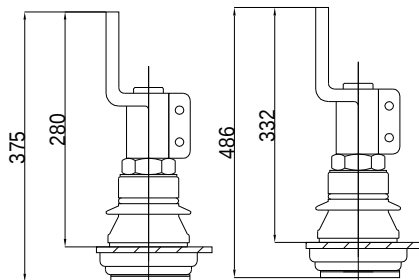
| Active part | Oil  | Total |
|-------------|------|-------|
| 2500        | 1110 | 4560  |

core earth bushing

| 28  | The filter valve            | 1    | ø25valve        |          |  |  |
|-----|-----------------------------|------|-----------------|----------|--|--|
| 27  | Terminal box                | 1    | Steel           |          |  |  |
| 26  | Conservator oil drain valve | 1    | ø25valve        |          |  |  |
| 25  | Lifting jack pad            | 4    |                 |          |  |  |
| 24  | Radiator isolating valve    | 16   | ø80Valve        |          |  |  |
| 23  | Gas relayisolating valve    | 2    | ø50Valve        |          |  |  |
| 22  | Core earthing bushing       | 1    | BF-1/315        |          |  |  |
| 21  | Thermometer tube            | 1    |                 |          |  |  |
| 20  | Thermometer tube            | 1    |                 |          |  |  |
| 19  | LV bushing                  | 3    | BF-1/2000       |          |  |  |
| 18  | Neutral bushing             | 1    | BF-1/1250       |          |  |  |
| 17  | LV cable box                | 1    |                 |          |  |  |
| 16  | Oil sample valve            | 1    |                 |          |  |  |
| 15  | Rating plate base           | 1    |                 |          |  |  |
| 14  | Tank oil drain valve        | 1    | ø25valve        |          |  |  |
| 13  | No-load tap changer         | 1    | WSP11-63/10-6*5 |          |  |  |
| 12  | HV bushing                  | 3    | BJL-10/315      |          |  |  |
| 11  | HV cable box                | 1    |                 |          |  |  |
| 10  | Earthing steel plate        | 1    |                 |          |  |  |
| 9   | Temp.controller base        | 1    | BWY802AG(TH)    |          |  |  |
| 8   | Radiator                    | 8    | PC-875-8/310    |          |  |  |
| 7   | Lifting hook                | 4    |                 |          |  |  |
| 6   | Lifting lugs                | 4    |                 |          |  |  |
| 5   | Pressure relief valve       | 1    | YSF4-35/50      |          |  |  |
| 4   | Silica gel breather         | 1    | 0.5KG           |          |  |  |
| 3   | Gas relay                   | 1    | QJ1-50A         |          |  |  |
| 2   | Oil level gauge             | 1    | YZF2-140        |          |  |  |
| 1   | Conservator                 | 1    | ø440*800        |          |  |  |
| No. | Code                        | Name | QTY             | Material |  |  |



Neutral terminal LV terminal



Neutral bushing LV bushing

1600KVA-11/0.55KV  
Dyn11  
transformer

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