



# Oil Immersed Distribution Transformer



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Green Energy Electrical Industry Co., Ltd



## 油浸式配电变压器

OIL IMMERSED DISTRIBUTION TRANSFORMER

### 产品概述

#### Product Overview

配电变压器指配电系统中根据电磁感应定律变换交流电压和电流而传输交流电能的一种静止电气设备。通常安装在电杆上或配电所中，作为日常照明和工厂动力用，一般低压输出电压为0.4kV及以下。配电变压器容量较小，一般在2500kVA及以下；一次电压也较低，都在35kV及以下。我公司生产的全密封配电变压器，由波纹油箱本体的波纹散热片作为散热胀缩元件，使变压器油与大气完全隔离。可根据用户需要生产一次额定电压为6,10,10.5,20,35kV等各种电压的配电变压器。

Distribution transformer is usually pole mounted or installed in distribution station for daily lighting and factory power whose LV output up to 0.4kV. The rating of transformer is up to 2500kVA, and primary voltage up to 35kV. Hermetically sealed distribution transformer manufactured by us are with corrugated radiators. The corrugated tank as a thermal expansion and contraction components enable the transformer oil completely isolated with the atmosphere. Distribution transformer with primary voltage range of 6,10,10.5,20,35kV can be manufactured according to the requirement of client.

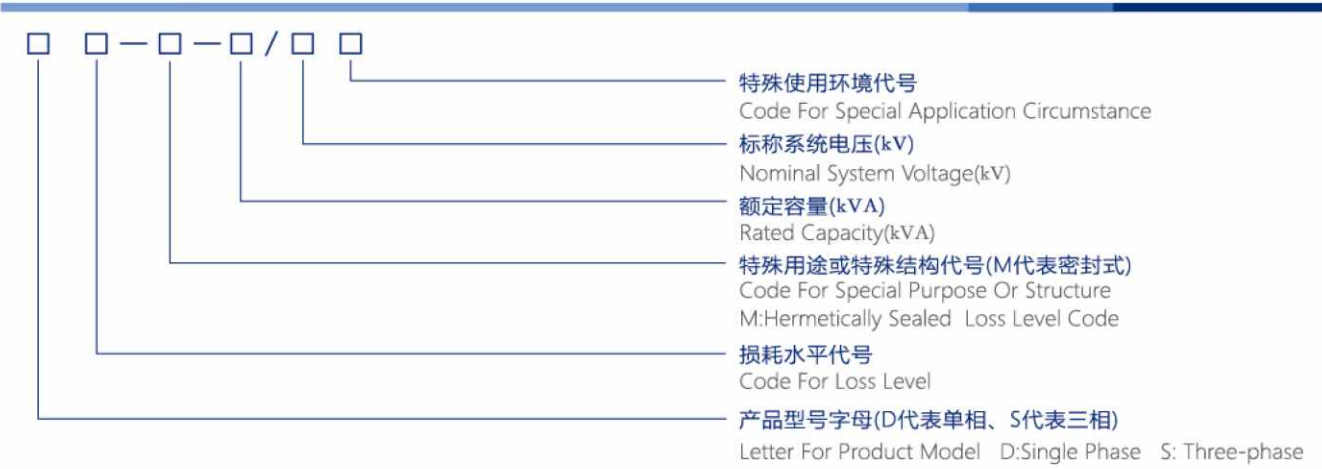
### 产品特点

#### Product Features

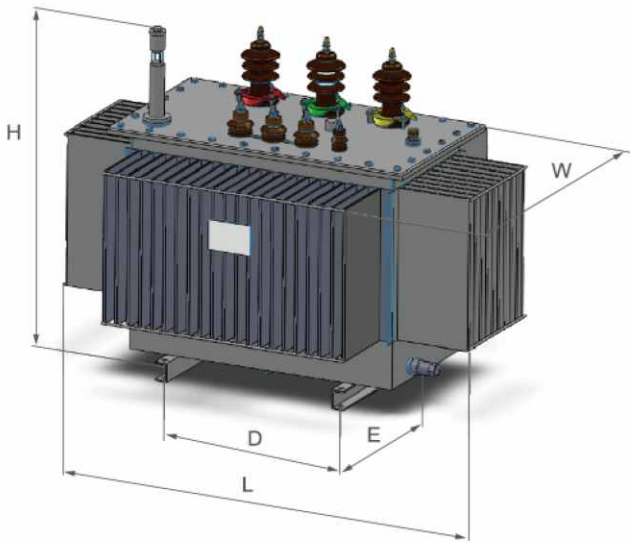
- 1、采用专利技术和专用软件设计，性能参数及要求均符合GB/T 1094、GB/T 6451、GB/T 25446等相关国家标准。
- 2、铁心采用冷轧晶粒取向硅钢片，由德国GEORG公司铁心自动生产线采用阶梯接缝工艺制造。
- 3、油箱为波纹油箱结构，由德国GEORG公司油箱自动生产线加工制造，表面预处理液和涂装粉末均采用国际品牌产品，油箱经自动生产流水线脱脂、酸洗、磷化、电泳前处理后喷粉，再高温固化，变压器油箱抗腐蚀能力强。
- 4、高压绕组采用高强度漆包线、纸包线卷绕，低压绕组采用高强度漆包线、纸包线、铜带卷绕。安匝分布均匀，绝缘结构合理，抗短路能力强。
- 5、器身采用免吊芯结构，密封件采用优质丙烯酸酯橡胶，能有效防止光老化、热老化。

- 1、Distribution transformer is optimally designed by patented technology and software. Its performance parameters and requirements meet the Chinese National Standards GB1094, GB/T6451, GB/T25446 and so on.
- 2、The core is made of high quality cold-rolled grain-oriented silicon steel sheet which produced in step-lap technology by automatic core lamination line from GEORG Germany.
- 3、The oil tank is corrugated type and fabricated by Germany GEORG ultra corrugation tank wall production lines. Tank surface pre-treatment liquid and coating powder adopts international top brands. The tank is degreasing, pickling, phosphorated, electrophoresis by automatic GEORG production lines, then power spary coating and heat-solidify. The tank of transformer is highly corrosion resistance.
- 4、The H.V winding of distribution transformer is made of high strength enamelled wire or paper-insulated wire, the L.V winding is made of high strength enamelled wire or paper-insulated wire and copper belt winding, which offers uniform distribution of ampere-turns, reasonable insulation structure so as to offer high ability to withstand short-circuit.
- 5、The active part applies core free-hanging structure. The gasket is made of high quality acrylate rubber which can inhibit ageing caused by sun and heat.

型号说明  
Model Coding



外形图  
Outline Drawing



主要技术参数  
Technical Parameters

油浸式配电变压器主要技术数据

|       |                  |                                                                                                  |
|-------|------------------|--------------------------------------------------------------------------------------------------|
| 额定频率  | Rated Frequency  | 50HZ                                                                                             |
| 额定电压  | Rated Voltage    | 高压(H.V) 6kV、6.3kV、10kV、10.5kV、11kV、15kV、20kV、35kV 低压(L.V) 0.4kV                                  |
| 分接范围  | Tap Range        | ±2×2.5%、±5%                                                                                      |
| 联结组标号 | Vector Group     | Dyn11、Yyn0                                                                                       |
| 绝缘水平  | Insulation Level | 6/0.4kV LI60AC25/AC5kV 10/0.4kV LI75AC35/AC5kV 20/0.4kV LI125AC55/AC5kV 35/0.4kV LI200AC85/AC5kV |

6kV、10kV级三相双绕组无励磁调压配电变压器  
6kV/10kV three-phase two windings transformer with OCTC

| 容量<br>Capacity<br>(kV·A) | 型号<br>Model    | 电压组合<br>Voltage        |                   | 空载损耗<br>No load<br>loss<br>(kW) | 负载损耗<br>Load loss<br>(kW) | 空载电流<br>No load<br>current<br>(%) | 短路阻抗<br>Short-circuit<br>impedance<br>(%) | 油重<br>Oil-<br>weight<br>(kg) | 总重<br>Total<br>weight<br>(kg) | 本体尺寸<br>Dimensions<br>L×W×H<br>(mm) | 轨距<br>Gauge<br>distance<br>D×E<br>(mm) |
|--------------------------|----------------|------------------------|-------------------|---------------------------------|---------------------------|-----------------------------------|-------------------------------------------|------------------------------|-------------------------------|-------------------------------------|----------------------------------------|
|                          |                | 高压<br>(kV)<br>H.V      | 低压<br>(kV)<br>L.V |                                 |                           |                                   |                                           |                              |                               |                                     |                                        |
| 30                       | S11-M-30/10    | 6<br>6.3<br>10<br>10.5 | 0.4               | 0.100                           | 0.630/0.600               | 1.5                               | 4.0                                       | 70                           | 285                           | 740×560×845                         | 400×400                                |
|                          | S13-M-30/10    |                        |                   | 0.080                           | 0.630/0.600               | 1.5                               | 4.0                                       | 65                           | 300                           | 740×560×845                         | 400×400                                |
|                          | S14-M-30/10    |                        |                   | 0.080                           | 0.505/0.480               | 1.5                               | 4.0                                       | 75                           | 400                           | 755×560×845                         | 400×400                                |
|                          | SH15-M-30/10   |                        |                   | 0.033                           | 0.630/0.600               | 1.5                               | 4.0                                       | 135                          | 435                           | 950×745×880                         | 550×550                                |
| 50                       | S11-M-50/10    |                        |                   | 0.130                           | 0.910/0.870               | 1.3                               | 4.0                                       | 70                           | 335                           | 740×600×870                         | 400×400                                |
|                          | S13-M-50/10    |                        |                   | 0.100                           | 0.910/0.870               | 1.3                               | 4.0                                       | 65                           | 370                           | 740×630×890                         | 400×400                                |
|                          | S14-M-50/10    |                        |                   | 0.100                           | 0.730/0.695               | 1.3                               | 4.0                                       | 120                          | 450                           | 760×640×920                         | 400×400                                |
|                          | SH15-M-50/10   |                        |                   | 0.043                           | 0.910/0.870               | 1.2                               | 4.0                                       | 145                          | 515                           | 970×790×885                         | 550×550                                |
| 63                       | S11-M-63/10    |                        |                   | 0.150                           | 1.09/1.04                 | 1.2                               | 4.0                                       | 75                           | 370                           | 770×670×900                         | 400×400                                |
|                          | S13-M-63/10    |                        |                   | 0.110                           | 1.09/1.04                 | 1.2                               | 4.0                                       | 70                           | 400                           | 770×670×900                         | 400×400                                |
|                          | S14-M-63/10    |                        |                   | 0.110                           | 0.870/0.830               | 1.2                               | 4.0                                       | 100                          | 500                           | 770×670×930                         | 400×400                                |
|                          | SH15-M-63/10   |                        |                   | 0.050                           | 1.09/1.04                 | 1.0                               | 4.0                                       | 140                          | 550                           | 1000×800×905                        | 550×550                                |
| 80                       | S11-M-80/10    |                        |                   | 0.180                           | 1.31/1.25                 | 1.2                               | 4.0                                       | 70                           | 405                           | 770×700×930                         | 400×550                                |
|                          | S13-M-80/10    |                        |                   | 0.130                           | 1.31/1.25                 | 1.2                               | 4.0                                       | 90                           | 450                           | 800×700×940                         | 400×550                                |
|                          | S14-M-80/10    |                        |                   | 0.130                           | 1.05/1.00                 | 1.2                               | 4.0                                       | 125                          | 555                           | 840×720×970                         | 400×550                                |
|                          | SH15-M-80/10   |                        |                   | 0.060                           | 1.31/1.25                 | 1.0                               | 4.0                                       | 145                          | 615                           | 1100×810×910                        | 550×550                                |
| 100                      | S11-M-100/10   |                        |                   | 0.200                           | 1.58/1.50                 | 1.1                               | 4.0                                       | 85                           | 495                           | 800×710×960                         | 400×550                                |
|                          | S13-M-100/10   |                        |                   | 0.150                           | 1.58/1.50                 | 1.1                               | 4.0                                       | 80                           | 495                           | 870×710×960                         | 400×550                                |
|                          | S14-M-100/10   |                        |                   | 0.150                           | 1.26/1.20                 | 1.1                               | 4.0                                       | 110                          | 605                           | 870×730×1015                        | 400×550                                |
|                          | SH15-M-100/10  |                        |                   | 0.075                           | 1.58/1.50                 | 0.90                              | 4.0                                       | 110                          | 565                           | 1100×820×930                        | 550×550                                |
| 125                      | S11-M-125/10   |                        |                   | 0.240                           | 1.89/1.80                 | 1.1                               | 4.0                                       | 90                           | 515                           | 1020×710×970                        | 550×550                                |
|                          | S13-M-125/10   |                        |                   | 0.170                           | 1.89/1.80                 | 1.1                               | 4.0                                       | 120                          | 690                           | 1020×800×1010                       | 550×550                                |
|                          | S14-M-125/10   |                        |                   | 0.170                           | 1.51/1.44                 | 1.1                               | 4.0                                       | 120                          | 770                           | 1040×810×1020                       | 550×550                                |
|                          | SH15-M-125/10  |                        |                   | 0.085                           | 1.89/1.80                 | 0.80                              | 4.0                                       | 155                          | 750                           | 1220×830×940                        | 550×550                                |
| 160                      | S11-M-160/10   |                        |                   | 0.280                           | 2.31/2.20                 | 1.0                               | 4.0                                       | 100                          | 585                           | 1100×770×970                        | 550×550                                |
|                          | S13-M-160/10   |                        |                   | 0.200                           | 2.31/2.20                 | 1.0                               | 4.0                                       | 125                          | 695                           | 1100×820×1050                       | 550×550                                |
|                          | S14-M-160/10   |                        |                   | 0.200                           | 1.85/1.76                 | 1.0                               | 4.0                                       | 125                          | 760                           | 1100×830×1070                       | 550×550                                |
|                          | SH15-M-160/10  |                        |                   | 0.100                           | 2.31/2.20                 | 0.60                              | 4.0                                       | 180                          | 870                           | 1230×900×950                        | 550×550                                |
| 200                      | S11-M-200/10   |                        |                   | 0.340                           | 2.73/2.60                 | 1.0                               | 4.0                                       | 110                          | 695                           | 1190×870×980                        | 550×550                                |
|                          | S13-M-200/10   |                        |                   | 0.240                           | 2.73/2.60                 | 1.0                               | 4.0                                       | 105                          | 745                           | 1190×870×1060                       | 550×550                                |
|                          | S14-M-200/10   |                        |                   | 0.240                           | 2.18/2.08                 | 1.0                               | 4.0                                       | 145                          | 870                           | 1190×880×1070                       | 550×550                                |
|                          | SBH15-M-200/10 |                        |                   | 0.120                           | 2.73/2.60                 | 0.60                              | 4.0                                       | 155                          | 925                           | 1240×980×960                        | 660×660                                |
| 250                      | S11-M-250/10   |                        |                   | 0.400                           | 3.20/3.05                 | 0.90                              | 4.0                                       | 135                          | 820                           | 1260×880×1030                       | 550×550                                |
|                          | S13-M-250/10   |                        |                   | 0.290                           | 3.20/3.05                 | 0.90                              | 4.0                                       | 150                          | 945                           | 1260×880×1070                       | 550×550                                |
|                          | S14-M-250/10   |                        |                   | 0.290                           | 2.56/2.44                 | 0.90                              | 4.0                                       | 150                          | 1020                          | 1270×890×1070                       | 550×550                                |
|                          | SBH15-M-250/10 |                        |                   | 0.140                           | 3.20/3.05                 | 0.60                              | 4.0                                       | 195                          | 1095                          | 1250×990×980                        | 660×660                                |
| 315                      | S11-M-315/10   |                        |                   | 0.480                           | 3.83/3.65                 | 0.90                              | 4.0                                       | 165                          | 960                           | 1330×930×1040                       | 550×550                                |
|                          | S13-M-315/10   |                        |                   | 0.340                           | 3.83/3.65                 | 0.90                              | 4.0                                       | 160                          | 1090                          | 1330×930×1120                       | 550×550                                |
|                          | S14-M-315/10   |                        |                   | 0.340                           | 3.06/2.92                 | 0.90                              | 4.0                                       | 175                          | 1175                          | 1330×940×1140                       | 550×550                                |
|                          | SBH15-M-315/10 |                        |                   | 0.170                           | 3.83/3.65                 | 0.50                              | 4.0                                       | 245                          | 1275                          | 1260×1100×990                       | 660×660                                |

| 容量<br>Capacity<br>(kV·A) | 型号<br>Model     | 电压组合<br>Voltage        |                   | 空载损耗<br>No load<br>loss<br>(kW) | 负载损耗<br>Load loss<br>(kW) | 空载电流<br>No load<br>current<br>(%) | 短路阻抗<br>Short-circuit<br>impedance<br>(%) | 油重<br>Oil-<br>weight<br>(kg) | 总重<br>Total<br>weight<br>(kg) | 本体尺寸<br>Dimensions<br>L×W×H<br>(mm) | 轨距<br>Gauge<br>distance<br>D×E<br>(mm) |
|--------------------------|-----------------|------------------------|-------------------|---------------------------------|---------------------------|-----------------------------------|-------------------------------------------|------------------------------|-------------------------------|-------------------------------------|----------------------------------------|
|                          |                 | 高压<br>(kV)<br>H.V      | 低压<br>(kV)<br>L.V |                                 |                           |                                   |                                           |                              |                               |                                     |                                        |
| 400                      | S11-M-400/10    | 6<br>6.3<br>10<br>10.5 | 0.4               | 0.570                           | 4.52/4.30                 | 0.80                              | 4.0                                       | 190                          | 1135                          | 1370×930×1110                       | 550×550                                |
|                          | S13-M-400/10    |                        |                   | 0.410                           | 4.52/4.30                 | 0.80                              | 4.0                                       | 165                          | 1235                          | 1370×940×1150                       | 550×550                                |
|                          | S14-M-400/10    |                        |                   | 0.410                           | 3.61/3.44                 | 0.80                              | 4.0                                       | 215                          | 1350                          | 1410×940×1210                       | 550×550                                |
|                          | SBH15-M-400/10  |                        |                   | 0.200                           | 4.52/4.30                 | 0.50                              | 4.0                                       | 255                          | 1535                          | 1650×1110×1020                      | 660×660                                |
| 500                      | S11-M-500/10    |                        |                   | 0.680                           | 5.41/5.15                 | 0.80                              | 4.0                                       | 215                          | 1360                          | 1485×1050×1165                      | 660×660                                |
|                          | S13-M-500/10    |                        |                   | 0.480                           | 5.41/5.15                 | 0.80                              | 4.0                                       | 220                          | 1520                          | 1485×1050×1180                      | 660×660                                |
|                          | S14-M-500/10    |                        |                   | 0.480                           | 4.33/4.12                 | 0.80                              | 4.0                                       | 350                          | 1600                          | 1500×1050×1350                      | 660×660                                |
|                          | SBH15-M-500/10  |                        |                   | 0.240                           | 5.41/5.15                 | 0.50                              | 4.0                                       | 290                          | 1670                          | 1670×1100×1040                      | 660×820                                |
| 630                      | S11-M-630/10    |                        |                   | 0.810                           | 6.20                      | 0.60                              | 4.5                                       | 255                          | 1605                          | 1500×1050×1220                      | 660×660                                |
|                          | S13-M-630/10    |                        |                   | 0.570                           | 6.20                      | 0.60                              | 4.5                                       | 260                          | 1810                          | 1600×1080×1290                      | 660×660                                |
|                          | S14-M-630/10    |                        |                   | 0.570                           | 4.96                      | 0.60                              | 4.5                                       | 415                          | 2440                          | 1600×1100×1440                      | 660×660                                |
|                          | SBH15-M-630/10  |                        |                   | 0.320                           | 6.20                      | 0.30                              | 4.5                                       | 345                          | 2005                          | 1815×1195×1070                      | 820×820                                |
| 800                      | S11-M-800/10    |                        |                   | 0.980                           | 7.50                      | 0.60                              | 4.5                                       | 325                          | 2085                          | 1610×1130×1250                      | 660×660                                |
|                          | S13-M-800/10    |                        |                   | 0.700                           | 7.50                      | 0.60                              | 4.5                                       | 345                          | 2155                          | 1655×1135×1290                      | 660×660                                |
|                          | S14-M-800/10    |                        |                   | 0.700                           | 6.00                      | 0.60                              | 4.5                                       | 430                          | 2460                          | 1670×1140×1460                      | 660×660                                |
|                          | SBH15-M-800/10  |                        |                   | 0.380                           | 7.50                      | 0.30                              | 4.5                                       | 480                          | 2325                          | 1885×1195×1090                      | 820×820                                |
| 1000                     | S11-M-1000/10   |                        |                   | 1.15                            | 10.3                      | 0.60                              | 4.5                                       | 415                          | 2435                          | 1660×1200×1370                      | 820×820                                |
|                          | S13-M-1000/10   |                        |                   | 0.830                           | 10.3                      | 0.60                              | 4.5                                       | 430                          | 2525                          | 1690×1200×1410                      | 820×820                                |
|                          | S14-M-1000/10   |                        |                   | 0.830                           | 8.24                      | 0.60                              | 4.5                                       | 490                          | 2480                          | 1700×1200×1490                      | 820×820                                |
|                          | SBH15-M-1000/10 |                        |                   | 0.450                           | 10.3                      | 0.30                              | 4.5                                       | 590                          | 2940                          | 1990×1345×1245                      | 820×820                                |
| 1250                     | S11-M-1250/10   |                        |                   | 1.36                            | 12.0                      | 0.50                              | 4.5                                       | 480                          | 2850                          | 1780×1230×1520                      | 820×820                                |
|                          | S13-M-1250/10   |                        |                   | 0.970                           | 12.0                      | 0.50                              | 4.5                                       | 480                          | 3040                          | 1780×1230×1560                      | 820×820                                |
|                          | S14-M-1250/10   |                        |                   | 0.970                           | 9.60                      | 0.50                              | 4.5                                       | 505                          | 3185                          | 1870×1250×1510                      | 820×820                                |
|                          | SBH15-M-1250/10 |                        |                   | 0.530                           | 12.0                      | 0.20                              | 4.5                                       | 685                          | 3455                          | 2105×1375×1350                      | 820×820                                |
| 1600                     | S11-M-1600/10   |                        |                   | 1.64                            | 14.5                      | 0.50                              | 4.5                                       | 645                          | 3700                          | 1890×1280×1635                      | 820×820                                |
|                          | S13-M-1600/10   |                        |                   | 1.17                            | 14.5                      | 0.50                              | 4.5                                       | 580                          | 3515                          | 1890×1280×1660                      | 820×820                                |
|                          | S14-M-1600/10   |                        |                   | 1.17                            | 11.6                      | 0.50                              | 4.5                                       | 600                          | 3730                          | 1890×1290×1750                      | 820×820                                |
|                          | SBH15-M-1600/10 |                        |                   | 0.630                           | 14.5                      | 0.20                              | 4.5                                       | 845                          | 4140                          | 2105×1375×1825                      | 820×820                                |
| 2000                     | S11-M-2000/10   |                        |                   | 1.94                            | 18.3                      | 0.40                              | 5.0                                       | 715                          | 4200                          | 1900×1290×1670                      | 820×820                                |
|                          | S13-M-2000/10   |                        |                   | 1.55                            | 18.3                      | 0.40                              | 5.0                                       | 825                          | 4585                          | 1900×1290×1670                      | 820×820                                |
|                          | S14-M-2000/10   |                        |                   | 1.55                            | 14.6                      | 0.40                              | 5.0                                       | 870                          | 4560                          | 2100×1300×1800                      | 820×820                                |
|                          | SBH15-M-2000/10 |                        |                   | 0.750                           | 18.3                      | 0.20                              | 5.0                                       | 915                          | 4720                          | 2160×1550×1540                      | 1070×1070                              |
| 2500                     | S11-M-2500/10   |                        |                   | 2.29                            | 21.2                      | 0.40                              | 5.0                                       | 885                          | 5010                          | 2120×1340×1860                      | 1070×1070                              |
|                          | S13-M-2500/10   |                        |                   | 1.83                            | 21.2                      | 0.40                              | 5.0                                       | 890                          | 4850                          | 2120×1340×1860                      | 1070×1070                              |
|                          | S14-M-2500/10   |                        |                   | 1.83                            | 16.9                      | 0.40                              | 5.0                                       | 940                          | 5670                          | 2150×1390×1980                      | 1070×1070                              |
|                          | SBH15-M-2500/10 |                        |                   | 0.900                           | 21.2                      | 0.20                              | 5.0                                       | 1140                         | 5830                          | 2370×1550×1650                      | 1070×1070                              |

表中斜线上方的负载损耗值适用于Dyn11联结组,斜线下方的负载损耗值适用于Yyn0联结组。以上尺寸根据产品优化会相应调整,最终以图纸确认为准。  
Load loss which at left side of slash in the table are applied to Dyn11 vector group., and the right side are applied to Yyn0 vector group.  
The above dimensions will be adjusted according to the product optimization with final drawing approval.

20kV级三相双绕组无励磁调压配电变压器  
20kV three-phase two winding transformer with OCTC

| 容量<br>Capacity<br>(kV·A) | 型号<br>Model    | 电压组合<br>Voltage   |                   | 空载损耗<br>No load<br>loss<br>(kW) | 负载损耗<br>Load loss<br>(kW) | 空载电流<br>No load<br>current<br>(%) | 短路阻抗<br>Short-circuit<br>impedance<br>(%) | 油重<br>Oil-<br>weight<br>(kg) | 总重<br>Total<br>weight<br>(kg) | 本体尺寸<br>Dimensions<br>L×W×H<br>(mm) | 轨距<br>Gauge<br>distance<br>D×E<br>(mm) |
|--------------------------|----------------|-------------------|-------------------|---------------------------------|---------------------------|-----------------------------------|-------------------------------------------|------------------------------|-------------------------------|-------------------------------------|----------------------------------------|
|                          |                | 高压<br>(kV)<br>H.V | 低压<br>(kV)<br>L.V |                                 |                           |                                   |                                           |                              |                               |                                     |                                        |
| 30                       | S11-M-30/20    | 20<br>20(10)      | 0.4               | 0.100                           | 0.690/0.660               | 2.1                               | 5.5                                       | 80                           | 500                           | 700×650×900                         | 400×400                                |
|                          | S13-M-30/20    |                   |                   | 0.080                           | 0.690/0.660               | 2.1                               | 5.5                                       | 80                           | 500                           | 700×650×900                         | 400×400                                |
|                          | SH15-M-30/20   |                   |                   | 0.040                           | 0.690/0.660               | 1.5                               | 5.5                                       | 130                          | 700                           | 1000×550×750                        | 400×400                                |
| 50                       | S11-M-50/20    |                   |                   | 0.130                           | 1.01/0.960                | 2.0                               | 5.5                                       | 100                          | 600                           | 730×690×950                         | 400×400                                |
|                          | S13-M-50/20    |                   |                   | 0.104                           | 1.01/0.960                | 2.0                               | 5.5                                       | 100                          | 600                           | 730×690×950                         | 400×400                                |
|                          | SH15-M-50/20   |                   |                   | 0.055                           | 1.01/0.960                | 1.2                               | 5.5                                       | 160                          | 840                           | 1030×680×800                        | 400×400                                |
| 63                       | S11-M-63/20    |                   |                   | 0.150                           | 1.20/1.15                 | 1.9                               | 5.5                                       | 110                          | 650                           | 750×700×980                         | 400×400                                |
|                          | S13-M-63/20    |                   |                   | 0.120                           | 1.20/1.15                 | 1.9                               | 5.5                                       | 110                          | 650                           | 750×700×980                         | 400×400                                |
|                          | SH15-M-63/20   |                   |                   | 0.065                           | 1.20/1.15                 | 1.1                               | 5.5                                       | 180                          | 910                           | 1050×600×830                        | 400×400                                |
| 80                       | S11-M-80/20    |                   |                   | 0.180                           | 1.44/1.37                 | 1.8                               | 5.5                                       | 120                          | 700                           | 770×720×1000                        | 400×550                                |
|                          | S13-M-80/20    |                   |                   | 0.144                           | 1.44/1.37                 | 1.8                               | 5.5                                       | 120                          | 700                           | 770×720×1000                        | 400×550                                |
|                          | SH15-M-80/20   |                   |                   | 0.075                           | 1.44/1.37                 | 1.0                               | 5.5                                       | 190                          | 980                           | 1070×620×850                        | 660×660                                |
| 100                      | S11-M-100/20   |                   |                   | 0.200                           | 1.73/1.65                 | 1.6                               | 5.5                                       | 150                          | 750                           | 810×760×1050                        | 400×550                                |
|                          | S13-M-100/20   |                   |                   | 0.160                           | 1.73/1.65                 | 1.6                               | 5.5                                       | 150                          | 750                           | 810×760×1050                        | 400×550                                |
|                          | SH15-M-100/20  |                   |                   | 0.090                           | 1.73/1.65                 | 0.90                              | 5.5                                       | 240                          | 1050                          | 1100×660×900                        | 660×660                                |
| 125                      | S11-M-125/20   |                   |                   | 0.240                           | 2.08/1.98                 | 1.5                               | 5.5                                       | 180                          | 820                           | 860×780×1100                        | 550×550                                |
|                          | S13-M-125/20   |                   |                   | 0.192                           | 2.08/1.98                 | 1.5                               | 5.5                                       | 180                          | 820                           | 860×780×1100                        | 550×550                                |
|                          | SH15-M-125/20  |                   |                   | 0.100                           | 2.08/1.98                 | 0.80                              | 5.5                                       | 290                          | 1145                          | 1160×680×950                        | 820×660                                |
| 160                      | S11-M-160/20   |                   |                   | 0.290                           | 2.54/2.42                 | 1.4                               | 5.5                                       | 190                          | 855                           | 910×805×1145                        | 550×550                                |
|                          | S13-M-160/20   |                   |                   | 0.232                           | 2.54/2.42                 | 1.4                               | 5.5                                       | 190                          | 855                           | 910×805×1145                        | 550×550                                |
|                          | SH15-M-160/20  |                   |                   | 0.120                           | 2.54/2.42                 | 0.60                              | 5.5                                       | 300                          | 1200                          | 1210×705×995                        | 820×660                                |
| 200                      | S11-M-200/20   |                   |                   | 0.340                           | 3.00/2.86                 | 1.3                               | 5.5                                       | 210                          | 860                           | 1220×820×1150                       | 550×550                                |
|                          | S13-M-200/20   |                   |                   | 0.272                           | 3.00/2.86                 | 1.3                               | 5.5                                       | 210                          | 860                           | 1220×820×1150                       | 550×550                                |
|                          | SBH15-M-200/20 |                   |                   | 0.145                           | 3.00/2.86                 | 0.6                               | 5.5                                       | 340                          | 1205                          | 1520×695×955                        | 820×660                                |
| 250                      | S11-M-250/20   |                   |                   | 0.400                           | 3.52/3.35                 | 1.2                               | 5.5                                       | 225                          | 950                           | 1275×860×1170                       | 550×550                                |
|                          | S13-M-250/20   |                   |                   | 0.320                           | 3.52/3.35                 | 1.2                               | 5.5                                       | 225                          | 950                           | 1275×860×1170                       | 550×550                                |
|                          | SBH15-M-250/20 |                   |                   | 0.165                           | 3.52/3.35                 | 0.60                              | 5.5                                       | 360                          | 1330                          | 1575×760×935                        | 820×660                                |
| 315                      | S11-M-315/20   |                   |                   | 0.480                           | 4.21/4.01                 | 1.1                               | 5.5                                       | 260                          | 1280                          | 1300×900×1200                       | 550×550                                |
|                          | S13-M-315/20   |                   |                   | 0.384                           | 4.21/4.01                 | 1.1                               | 5.5                                       | 260                          | 1280                          | 1300×900×1200                       | 550×550                                |
|                          | SBH15-M-315/20 |                   |                   | 0.200                           | 4.21/4.01                 | 0.50                              | 5.5                                       | 415                          | 1795                          | 1600×800×970                        | 820×660                                |
| 400                      | S11-M-400/20   |                   |                   | 0.570                           | 4.97/4.73                 | 1.0                               | 5.5                                       | 270                          | 1290                          | 1490×990×1240                       | 550×550                                |
|                          | S13-M-400/20   |                   |                   | 0.456                           | 4.97/4.73                 | 1.0                               | 5.5                                       | 270                          | 1290                          | 1490×990×1240                       | 550×550                                |
|                          | SBH15-M-400/20 |                   |                   | 0.240                           | 4.97/4.73                 | 0.50                              | 5.5                                       | 430                          | 1810                          | 1815×880×1080                       | 820×660                                |
| 500                      | S11-M-500/20   |                   |                   | 0.680                           | 5.94/5.66                 | 1.0                               | 5.5                                       | 330                          | 1555                          | 1570×1045×1250                      | 660×660                                |
|                          | S13-M-500/20   |                   |                   | 0.544                           | 5.94/5.66                 | 1.0                               | 5.5                                       | 330                          | 1555                          | 1570×1045×1250                      | 660×660                                |
|                          | SBH15-M-500/20 |                   |                   | 0.290                           | 5.94/5.66                 | 0.50                              | 5.5                                       | 530                          | 2175                          | 1870×945×1100                       | 820×820                                |
| 630                      | S11-M-630/20   |                   |                   | 0.810                           | 6.82                      | 0.90                              | 6.0                                       | 370                          | 1840                          | 1605×1095×1255                      | 660×660                                |
|                          | S13-M-630/20   |                   |                   | 0.648                           | 6.82                      | 0.90                              | 6.0                                       | 370                          | 1840                          | 1605×1095×1255                      | 660×660                                |
|                          | SBH15-M-630/20 |                   |                   | 0.370                           | 6.82                      | 0.30                              | 6.0                                       | 590                          | 2575                          | 1905×998×1105                       | 820×820                                |

| 容量<br>Capacity<br>(kV·A) | 型号<br>Model     | 电压组合<br>Voltage   |                   | 空载损耗<br>No load<br>loss<br>(kW) | 负载损耗<br>Load loss<br>(kW) | 空载电流<br>No load<br>current<br>(%) | 短路阻抗<br>Short-circuit<br>impedance<br>(%) | 油重<br>Oil-<br>weight<br>(kg) | 总重<br>Total<br>weight<br>(kg) | 本体尺寸<br>Dimensions<br>L×W×H<br>(mm) | 轨距<br>Gauge<br>distance<br>D×E<br>(mm) |
|--------------------------|-----------------|-------------------|-------------------|---------------------------------|---------------------------|-----------------------------------|-------------------------------------------|------------------------------|-------------------------------|-------------------------------------|----------------------------------------|
|                          |                 | 高压<br>(kV)<br>H.V | 低压<br>(kV)<br>L.V |                                 |                           |                                   |                                           |                              |                               |                                     |                                        |
| 800                      | S11-M-800/20    | 20<br>20(10)      | 0.4               | 0.980                           | 8.25                      | 0.80                              | 6.0                                       | 445                          | 2185                          | 1710×1195×1325                      | 660×660                                |
|                          | S13-M-800/20    |                   |                   | 0.784                           | 8.25                      | 0.80                              | 6.0                                       | 445                          | 2185                          | 1710×1195×1325                      | 660×660                                |
|                          | SBH15-M-800/20  |                   |                   | 0.450                           | 8.25                      | 0.30                              | 6.0                                       | 710                          | 3060                          | 2010×1095×1175                      | 820×820                                |
| 1000                     | S11-M-1000/20   |                   |                   | 1.15                            | 11.3                      | 0.70                              | 6.0                                       | 505                          | 2540                          | 1820×1265×1430                      | 820×820                                |
|                          | S13-M-1000/20   |                   |                   | 0.920                           | 11.3                      | 0.70                              | 6.0                                       | 505                          | 2540                          | 1820×1265×1430                      | 820×820                                |
|                          | SBH15-M-1000/20 |                   |                   | 0.530                           | 11.3                      | 0.30                              | 6.0                                       | 810                          | 3560                          | 2120×1165×1280                      | 820×820                                |
| 1250                     | S11-M-1250/20   |                   |                   | 1.38                            | 13.2                      | 0.70                              | 6.0                                       | 620                          | 3125                          | 1880×1285×1625                      | 820×820                                |
|                          | S13-M-1250/20   |                   |                   | 1.10                            | 13.2                      | 0.70                              | 6.0                                       | 620                          | 3125                          | 1880×1285×1625                      | 820×820                                |
|                          | SBH15-M-1250/20 |                   |                   | 0.620                           | 13.2                      | 0.20                              | 6.0                                       | 990                          | 4375                          | 2180×1185×1475                      | 820×820                                |
| 1600                     | S11-M-1600/20   |                   |                   | 1.66                            | 15.95                     | 0.60                              | 6.0                                       | 745                          | 3790                          | 1950×1310×1650                      | 820×820                                |
|                          | S13-M-1600/20   |                   |                   | 1.33                            | 15.95                     | 0.60                              | 6.0                                       | 745                          | 3790                          | 1950×1310×1650                      | 820×820                                |
|                          | SBH15-M-1600/20 |                   |                   | 0.750                           | 15.95                     | 0.20                              | 6.0                                       | 1190                         | 5305                          | 2250×1210×1500                      | 1100×920                               |
| 2000                     | S11-M-2000/20   |                   |                   | 1.95                            | 19.1                      | 0.60                              | 6.0                                       | 750                          | 4050                          | 2050×1340×1900                      | 820×820                                |
|                          | S13-M-2000/20   |                   |                   | 1.56                            | 19.1                      | 0.60                              | 6.0                                       | 750                          | 4050                          | 2050×1340×1900                      | 820×820                                |
|                          | SBH15-M-2000/20 |                   |                   | 0.900                           | 19.1                      | 0.20                              | 6.0                                       | 1200                         | 5670                          | 2350×1190×1750                      | 820×820                                |
| 2500                     | S11-M-2500/20   |                   |                   | 2.34                            | 22.22                     | 0.50                              | 6.0                                       | 1100                         | 5500                          | 2200×1450×2000                      | 1070×1070                              |
|                          | S13-M-2500/20   |                   |                   | 1.87                            | 22.22                     | 0.50                              | 6.0                                       | 1100                         | 5500                          | 2200×1450×2000                      | 1070×1070                              |
|                          | SBH15-M-2500/20 |                   |                   | 1.08                            | 22.22                     | 0.20                              | 6.0                                       | 1760                         | 7700                          | 2500×1150×1850                      | 1070×1070                              |

表中斜线上方的负载损耗值适用于Dyn11联结组，斜线下方的负载损耗值适用于Yyn0联结组。  
Load loss which at left side of slash in the table are applied to Dyn11 vector group, and the right side are applied to Yyn0 vector group.

6kV、10kV级三相双绕组有载调压配电变压器  
6kV,10kV three-phase two winding distribution transformer with OLTC

| 容量<br>Capacity<br>(kV·A) | 型号<br>Model   | 电压组合<br>Voltage        |                   | 空载损耗<br>No load<br>loss<br>(kW) | 负载损耗<br>Load loss<br>(kW) | 空载电流<br>No load<br>current<br>(%) | 短路阻抗<br>Short-circuit<br>impedance<br>(%) | 油重<br>Oil-<br>weight<br>(kg) | 总重<br>Total<br>weight<br>(kg) | 本体尺寸<br>Dimensions<br>L×W×H<br>(mm) | 轨距<br>Gauge<br>distance<br>D×E<br>(mm) |
|--------------------------|---------------|------------------------|-------------------|---------------------------------|---------------------------|-----------------------------------|-------------------------------------------|------------------------------|-------------------------------|-------------------------------------|----------------------------------------|
|                          |               | 高压<br>(kV)<br>H.V      | 低压<br>(kV)<br>L.V |                                 |                           |                                   |                                           |                              |                               |                                     |                                        |
| 250                      | SZ11-M-250/10 | 6<br>6.3<br>10<br>10.5 | 0.4               | 0.440                           | 3.42                      | 0.90                              | 4.0                                       | 320                          | 1130                          | 1700×875×1230                       | 550×550                                |
|                          | SZ13-M-250/10 |                        |                   | 0.352                           | 3.42                      | 0.90                              | 4.0                                       | 320                          | 1130                          | 1700×875×1230                       | 550×550                                |
| 315                      | SZ11-M-315/10 |                        |                   | 0.530                           | 4.10                      | 0.90                              | 4.0                                       | 345                          | 1300                          | 1785×900×1290                       | 550×550                                |
|                          | SZ13-M-315/10 |                        |                   | 0.424                           | 4.10                      | 0.90                              | 4.0                                       | 345                          | 1300                          | 1785×900×1290                       | 550×550                                |
| 400                      | SZ11-M-400/10 |                        |                   | 0.640                           | 4.95                      | 0.80                              | 4.0                                       | 360                          | 1485                          | 1870×930×1340                       | 550×550                                |
|                          | SZ13-M-400/10 |                        |                   | 0.512                           | 4.95                      | 0.80                              | 4.0                                       | 360                          | 1485                          | 1870×930×1340                       | 550×550                                |
| 500                      | SZ11-M-500/10 |                        |                   | 0.760                           | 5.89                      | 0.80                              | 4.0                                       | 380                          | 1705                          | 1900×1010×1370                      | 660×660                                |
|                          | SZ13-M-500/10 |                        |                   | 0.608                           | 5.89                      | 0.80                              | 4.0                                       | 380                          | 1705                          | 1900×1010×1370                      | 660×660                                |
| 630                      | SZ11-M-630/10 |                        |                   | 0.960                           | 7.26                      | 0.60                              | 4.5                                       | 455                          | 1955                          | 2000×1070×1475                      | 660×660                                |
|                          | SZ13-M-630/10 |                        |                   | 0.768                           | 7.26                      | 0.60                              | 4.5                                       | 455                          | 1955                          | 2000×1070×1475                      | 660×660                                |

6kV、10kV级三相双绕组有载调压配电变压器  
6kV,10kV three-phase two winding distribution transformer with OLTC

| 容量<br>Capacity<br>(kV·A) | 型号<br>Model    | 电压组合<br>Voltage        |                   | 空载损耗<br>No load<br>loss<br>(kW) | 负载损耗<br>Load loss<br>(kW) | 空载电流<br>No load<br>current<br>(%) | 短路阻抗<br>Short-circuit<br>impedance<br>(%) | 油重<br>Oil-<br>weight<br>(kg) | 总重<br>Total<br>weight<br>(kg) | 本体尺寸<br>Dimensions<br>L×W×H<br>(mm) | 轨距<br>Gauge<br>distance<br>D×E<br>(mm) |
|--------------------------|----------------|------------------------|-------------------|---------------------------------|---------------------------|-----------------------------------|-------------------------------------------|------------------------------|-------------------------------|-------------------------------------|----------------------------------------|
|                          |                | 高压<br>(kV)<br>H.V      | 低压<br>(kV)<br>L.V |                                 |                           |                                   |                                           |                              |                               |                                     |                                        |
| 800                      | SZ11-M-800/10  | 6<br>6.3<br>10<br>10.5 | 0.4               | 1.12                            | 8.89                      | 0.60                              | 4.5                                       | 520                          | 2080                          | 2100×1100×1720                      | 660×660                                |
|                          | SZ13-M-800/10  |                        |                   | 0.896                           | 8.89                      | 0.60                              | 4.5                                       | 520                          | 2080                          | 2100×1100×1720                      | 660×660                                |
| 1000                     | SZ11-M-1000/10 |                        |                   | 1.36                            | 10.4                      | 0.60                              | 4.5                                       | 610                          | 2175                          | 2300×1120×1750                      | 820×820                                |
|                          | SZ13-M-1000/10 |                        |                   | 1.09                            | 10.4                      | 0.60                              | 4.5                                       | 610                          | 2175                          | 2300×1120×1750                      | 820×820                                |
| 1250                     | SZ11-M-1250/10 |                        |                   | 1.56                            | 12.3                      | 0.50                              | 4.5                                       | 775                          | 3150                          | 2430×1190×1975                      | 820×820                                |
|                          | SZ13-M-1250/10 |                        |                   | 1.25                            | 12.3                      | 0.50                              | 4.5                                       | 775                          | 3150                          | 2430×1190×1975                      | 820×820                                |
| 1600                     | SZ11-M-1600/10 |                        |                   | 1.92                            | 14.7                      | 0.50                              | 4.5                                       | 945                          | 4220                          | 2620×1260×2075                      | 820×820                                |
|                          | SZ13-M-1600/10 |                        |                   | 1.54                            | 14.7                      | 0.50                              | 4.5                                       | 945                          | 4220                          | 2620×1260×2075                      | 820×820                                |
| 2000                     | SZ11-M-2000/10 |                        |                   | 2.27                            | 18.6                      | 0.40                              | 5.0                                       | 1055                         | 4600                          | 2720×1300×2110                      | 820×820                                |
|                          | SZ13-M-2000/10 |                        |                   | 1.82                            | 18.6                      | 0.40                              | 5.0                                       | 1055                         | 4600                          | 2720×1300×2110                      | 820×820                                |
| 2500                     | SZ11-M-2500/10 |                        |                   | 2.68                            | 21.6                      | 0.40                              | 5.0                                       | 1265                         | 5500                          | 2815×1360×2170                      | 1070×1070                              |
|                          | SZ13-M-2500/10 |                        |                   | 2.14                            | 21.6                      | 0.40                              | 5.0                                       | 1265                         | 5500                          | 2815×1360×2170                      | 1070×1070                              |

6kV、10kV级单相双绕组无励磁调压配电变压器  
6kV,10kV single-phase two winding transformer with OCTC

| 容量<br>Capacity<br>(kV·A) | 型号<br>Model   | 电压组合<br>Voltage        |                   | 空载损耗<br>No load<br>loss<br>(kW) | 负载损耗<br>Load loss<br>(kW) | 空载电流<br>No load<br>current<br>(%) | 短路阻抗<br>Short-circuit<br>impedance<br>(%) | 油重<br>Oil-<br>weight<br>(kg) | 总重<br>Total<br>weight<br>(kg) | 本体尺寸<br>Dimensions<br>L×W×H<br>(mm) |
|--------------------------|---------------|------------------------|-------------------|---------------------------------|---------------------------|-----------------------------------|-------------------------------------------|------------------------------|-------------------------------|-------------------------------------|
|                          |               | 高压<br>(kV)<br>H.V      | 低压<br>(kV)<br>L.V |                                 |                           |                                   |                                           |                              |                               |                                     |
| 30                       | D11-M-30/10   | 6<br>6.3<br>10<br>10.5 | 0.22              | 0.080                           | 0.560                     | 0.80                              | 3.0                                       | 55                           | 275                           | 600×620×1015                        |
|                          | DH15-M-30/10  |                        |                   | 0.030                           | 0.560                     | 1.40                              | 3.5                                       | 90                           | 285                           | 580×660×970                         |
| 50                       | D11-M-50/10   |                        |                   | 0.120                           | 0.855                     | 0.70                              | 3.5                                       | 60                           | 310                           | 630×710×1050                        |
|                          | DH15-M-50/10  |                        |                   | 0.040                           | 0.855                     | 1.0                               | 3.5                                       | 95                           | 340                           | 580×660×1040                        |
| 63                       | D11-M-63/10   |                        |                   | 0.145                           | 1.020                     | 0.60                              | 3.5                                       | 70                           | 365                           | 670×720×1160                        |
|                          | DH15-M-63/10  |                        |                   | 0.050                           | 1.020                     | 1.0                               | 3.5                                       | 100                          | 405                           | 600×680×1050                        |
| 80                       | D11-M-80/10   |                        |                   | 0.160                           | 1.260                     | 0.60                              | 3.5                                       | 80                           | 375                           | 740×730×1180                        |
|                          | DH15-M-80/10  |                        |                   | 0.060                           | 1.260                     | 0.80                              | 3.5                                       | 120                          | 450                           | 820×750×1065                        |
| 100                      | D11-M-100/10  |                        |                   | 0.190                           | 1.485                     | 0.60                              | 3.5                                       | 120                          | 445                           | 750×750×1200                        |
|                          | DH15-M-100/10 |                        |                   | 0.070                           | 1.485                     | 0.80                              | 3.5                                       | 125                          | 505                           | 865×750×1115                        |
| 125                      | D11-M-125/10  |                        |                   | 0.230                           | 1.755                     | 0.50                              | 3.5                                       | 160                          | 515                           | 800×760×1250                        |
|                          | DH15-M-125/10 |                        |                   | 0.085                           | 1.755                     | 0.60                              | 3.5                                       | 135                          | 590                           | 885×775×1170                        |
| 160                      | D11-M-160/10  |                        |                   | 0.290                           | 2.130                     | 0.50                              | 3.5                                       | 200                          | 585                           | 850×810×1300                        |
|                          | DH15-M-160/10 |                        |                   | 0.100                           | 2.130                     | 0.60                              | 3.5                                       | 145                          | 675                           | 910×800×1270                        |

以上尺寸根据产品优化会相应调整，最终以图纸确认为准。  
The above dimensions will be adjusted according to the product optimization with final drawing approval.

35kV级三相双绕组无励磁调压配电变压器  
35kV three-phase two winding transformer with OCTC

| 容量<br>Capacity<br>(kV·A) | 型号<br>Model   | 电压组合<br>Voltage   |                   | 空载损耗<br>No load<br>loss<br>(kW) | 负载损耗<br>Load loss<br>(kW) | 空载电流<br>No load<br>current<br>(%) | 短路阻抗<br>Short-circuit<br>impedance<br>(%) | 油重<br>Oil-<br>weight<br>(kg) | 总重<br>Total<br>weight<br>(kg) | 本体尺寸<br>Dimensions<br>L×W×H<br>(mm) | 轨距<br>Gauge<br>distance<br>D×E<br>(mm) |
|--------------------------|---------------|-------------------|-------------------|---------------------------------|---------------------------|-----------------------------------|-------------------------------------------|------------------------------|-------------------------------|-------------------------------------|----------------------------------------|
|                          |               | 高压<br>(kV)<br>H.V | 低压<br>(kV)<br>L.V |                                 |                           |                                   |                                           |                              |                               |                                     |                                        |
| 50                       | S11-M-50/35   | 35                | 0.4               | 0.160                           | 1.20/1.14                 | 1.3                               | 6.5                                       | 245                          | 690                           | 1135×960×1490                       | 550×550                                |
|                          | S13-M-50/35   |                   |                   | 0.128                           | 1.20/1.14                 | 1.3                               |                                           | 245                          | 690                           | 1135×960×1490                       | 550×550                                |
| 100                      | S11-M-100/35  |                   |                   | 0.230                           | 2.01/1.91                 | 1.1                               |                                           | 305                          | 900                           | 1135×1000×1595                      | 550×660                                |
|                          | S13-M-100/35  |                   |                   | 0.184                           | 2.01/1.91                 | 1.1                               |                                           | 305                          | 900                           | 1135×1000×1595                      | 550×660                                |
| 125                      | S11-M-125/35  |                   |                   | 0.270                           | 2.37/2.26                 | 1.1                               |                                           | 375                          | 990                           | 1145×1100×1650                      | 550×660                                |
|                          | S13-M-125/35  |                   |                   | 0.216                           | 2.37/2.26                 | 1.1                               |                                           | 375                          | 990                           | 1145×1100×1650                      | 550×660                                |
| 160                      | S11-M-160/35  |                   |                   | 0.280                           | 2.82/2.68                 | 1.0                               |                                           | 400                          | 1180                          | 1145×1100×1650                      | 550×660                                |
|                          | S13-M-160/35  |                   |                   | 0.224                           | 2.82/2.68                 | 1.0                               |                                           | 400                          | 1180                          | 1145×1100×1650                      | 550×660                                |
| 200                      | S11-M-200/35  |                   |                   | 0.340                           | 3.32/3.16                 | 1.0                               |                                           | 440                          | 1310                          | 1145×1150×1650                      | 550×660                                |
|                          | S13-M-200/35  |                   |                   | 0.272                           | 3.32/3.16                 | 1.0                               |                                           | 440                          | 1310                          | 1145×1150×1650                      | 550×660                                |
| 250                      | S11-M-250/35  |                   |                   | 0.400                           | 3.95/3.76                 | 0.95                              |                                           | 500                          | 1490                          | 1350×1170×1715                      | 550×660                                |
|                          | S13-M-250/35  |                   |                   | 0.320                           | 3.95/3.76                 | 0.95                              |                                           | 500                          | 1490                          | 1350×1190×1755                      | 550×660                                |
| 315                      | S11-M-315/35  |                   |                   | 0.480                           | 4.75/4.53                 | 0.95                              |                                           | 550                          | 1780                          | 1560×1230×1840                      | 660×660                                |
|                          | S13-M-315/35  |                   |                   | 0.384                           | 4.75/4.53                 | 0.95                              |                                           | 550                          | 1780                          | 1560×1230×1840                      | 660×660                                |
| 400                      | S11-M-400/35  |                   |                   | 0.580                           | 5.74/5.47                 | 0.85                              |                                           | 600                          | 1925                          | 1770×1280×2010                      | 660×660                                |
|                          | S13-M-400/35  |                   |                   | 0.464                           | 5.74/5.47                 | 0.85                              |                                           | 600                          | 1925                          | 1770×1280×2010                      | 660×660                                |
| 500                      | S11-M-500/35  |                   |                   | 0.680                           | 6.91/6.58                 | 0.85                              |                                           | 680                          | 2355                          | 1990×1300×2100                      | 660×660                                |
|                          | S13-M-500/35  |                   |                   | 0.544                           | 6.91/6.58                 | 0.85                              |                                           | 680                          | 2355                          | 1990×1300×2100                      | 660×660                                |
| 630                      | S11-M-630/35  |                   |                   | 0.830                           | 7.86                      | 0.65                              |                                           | 725                          | 2665                          | 2195×1300×2290                      | 820×820                                |
|                          | S13-M-630/35  |                   |                   | 0.664                           | 7.86                      | 0.65                              |                                           | 725                          | 2665                          | 2195×1300×2290                      | 820×820                                |
| 800                      | S11-M-800/35  |                   |                   | 0.980                           | 9.40                      | 0.65                              |                                           | 750                          | 2990                          | 2220×1350×2250                      | 820×820                                |
|                          | S13-M-800/35  |                   |                   | 0.784                           | 9.40                      | 0.65                              |                                           | 750                          | 2990                          | 2220×1350×2250                      | 820×820                                |
| 1000                     | S11-M-1000/35 |                   |                   | 1.15                            | 11.5                      | 0.65                              |                                           | 755                          | 3285                          | 2290×1380×2280                      | 820×820                                |
|                          | S13-M-1000/35 |                   |                   | 0.920                           | 11.5                      | 0.65                              |                                           | 755                          | 3285                          | 2290×1380×2280                      | 820×820                                |
| 1250                     | S11-M-1250/35 |                   |                   | 1.40                            | 13.9                      | 0.60                              |                                           | 780                          | 3560                          | 2250×1430×2360                      | 820×820                                |
|                          | S13-M-1250/35 |                   |                   | 1.12                            | 13.9                      | 0.60                              |                                           | 780                          | 3560                          | 2250×1430×2360                      | 820×820                                |
| 1600                     | S11-M-1600/35 |                   |                   | 1.69                            | 16.6                      | 0.60                              |                                           | 810                          | 3880                          | 2270×1600×2400                      | 820×820                                |
|                          | S13-M-1600/35 |                   |                   | 1.35                            | 16.6                      | 0.60                              |                                           | 810                          | 3880                          | 2270×1600×2400                      | 820×820                                |
| 2000                     | S11-M-2000/35 |                   |                   | 1.99                            | 19.7                      | 0.55                              |                                           | 1150                         | 5120                          | 2300×2290×2645                      | 1070×1070                              |
|                          | S13-M-2000/35 |                   |                   | 1.59                            | 19.7                      | 0.55                              |                                           | 1150                         | 5120                          | 2300×2290×2645                      | 1070×1070                              |
| 2500                     | S11-M-2500/35 |                   |                   | 2.36                            | 23.2                      | 0.55                              |                                           | 1460                         | 6645                          | 2530×2260×2755                      | 1070×1070                              |
|                          | S13-M-2500/35 |                   |                   | 1.89                            | 23.2                      | 0.55                              |                                           | 1460                         | 6645                          | 2530×2260×2755                      | 1070×1070                              |

表中斜线上方的负载损耗值适用于Dyn11联结组，斜线下方的负载损耗值适用于Yyn0联结组。以上尺寸根据产品优化会相应调整，最终以图纸确认为准。  
Load loss which at left side of slash in the table are applied to Dyn11 vector group, and the right side are applied to Yyn0 vector group.  
The above dimensions will be adjusted according to the product optimization with final drawing approval.

6kV、10kV级石化用配电变压器  
6kV,10kV petrochemical distribution transformer

| 容量<br>Capacity<br>(kV·A) | 型号<br>Model    | 电压组合<br>Voltage        |                   | 空载损耗<br>No load<br>loss<br>(kW) | 负载损耗<br>Load loss<br>(kW) | 空载电流<br>No load<br>current<br>(%) | 短路阻抗<br>Short-circuit<br>impedance<br>(%) | 油重<br>Oil-<br>weight<br>(kg) | 总重<br>Total<br>weight<br>(kg) | 本体尺寸<br>Dimensions<br>L×W×H<br>(mm) | 轨距<br>Gauge<br>distance<br>D×E<br>(mm) |
|--------------------------|----------------|------------------------|-------------------|---------------------------------|---------------------------|-----------------------------------|-------------------------------------------|------------------------------|-------------------------------|-------------------------------------|----------------------------------------|
|                          |                | 高压<br>(kV)<br>H.V      | 低压<br>(kV)<br>L.V |                                 |                           |                                   |                                           |                              |                               |                                     |                                        |
| 200                      | S11-MS-200/10  | 6<br>6.3<br>10<br>10.5 | 0.4               | 0.340                           | 2.73/2.60                 | 1.0                               | 4.0                                       | 170                          | 815                           | 1260×1270×1195                      | 550×550                                |
|                          | S13-MS-200/10  |                        |                   | 0.240                           | 2.73/2.60                 | 1.0                               |                                           | 170                          | 815                           | 1260×1270×1195                      | 550×550                                |
| 250                      | S11-MS-250/10  |                        |                   | 0.400                           | 3.20/3.05                 | 0.90                              |                                           | 180                          | 940                           | 1310×1290×1230                      | 550×550                                |
|                          | S13-MS-250/10  |                        |                   | 0.290                           | 3.20/3.05                 | 0.90                              |                                           | 180                          | 940                           | 1310×1290×1230                      | 550×550                                |
| 315                      | S11-MS-315/10  |                        |                   | 0.480                           | 3.83/3.65                 | 0.90                              |                                           | 200                          | 1080                          | 1360×1330×1245                      | 550×550                                |
|                          | S13-MS-315/10  |                        |                   | 0.340                           | 3.83/3.65                 | 0.90                              |                                           | 200                          | 1080                          | 1360×1330×1245                      | 550×550                                |
| 400                      | S11-MS-400/10  |                        |                   | 0.570                           | 4.52/4.30                 | 0.80                              |                                           | 210                          | 1255                          | 1360×1350×1350                      | 550×550                                |
|                          | S13-MS-400/10  |                        |                   | 0.410                           | 4.52/4.30                 | 0.80                              |                                           | 210                          | 1255                          | 1360×1350×1350                      | 550×550                                |
| 500                      | S11-MS-500/10  |                        |                   | 0.680                           | 5.41/5.15                 | 0.80                              |                                           | 215                          | 1500                          | 1510×1400×1440                      | 660×660                                |
|                          | S13-MS-500/10  |                        |                   | 0.480                           | 5.41/5.15                 | 0.80                              |                                           | 215                          | 1500                          | 1510×1400×1440                      | 660×660                                |
| 630                      | S11-MS-630/10  |                        |                   | 0.810                           | 6.20                      | 0.60                              |                                           | 255                          | 1745                          | 1495×1435×1455                      | 660×660                                |
|                          | S13-MS-630/10  |                        |                   | 0.570                           | 6.20                      | 0.60                              |                                           | 255                          | 1745                          | 1495×1435×1455                      | 660×660                                |
| 800                      | S11-MS-800/10  |                        |                   | 0.980                           | 7.50                      | 0.60                              |                                           | 325                          | 2235                          | 1655×1500×1500                      | 660×660                                |
|                          | S13-MS-800/10  |                        |                   | 0.700                           | 7.50                      | 0.60                              |                                           | 325                          | 2235                          | 1655×1500×1500                      | 660×660                                |
| 1000                     | S11-MS-1000/10 |                        |                   | 1.15                            | 10.3                      | 0.60                              |                                           | 390                          | 2480                          | 1725×1600×1625                      | 820×820                                |
|                          | S13-MS-1000/10 |                        |                   | 0.830                           | 10.3                      | 0.60                              |                                           | 390                          | 2480                          | 1725×1600×1625                      | 820×820                                |
| 1250                     | S11-MS-1250/10 |                        |                   | 1.36                            | 12.0                      | 0.50                              |                                           | 465                          | 3075                          | 1780×1640×1750                      | 820×820                                |
|                          | S13-MS-1250/10 |                        |                   | 0.970                           | 12.0                      | 0.50                              |                                           | 465                          | 3075                          | 1780×1640×1750                      | 820×820                                |
| 1600                     | S11-MS-1600/10 |                        |                   | 1.64                            | 14.5                      | 0.50                              |                                           | 655                          | 4050                          | 1890×1690×1830                      | 820×820                                |
|                          | S13-MS-1600/10 |                        |                   | 1.17                            | 14.5                      | 0.50                              |                                           | 655                          | 4050                          | 1890×1690×1830                      | 820×820                                |
| 2000                     | S11-MS-2000/10 |                        |                   | 1.94                            | 18.3                      | 0.40                              |                                           | 715                          | 4430                          | 1900×1700×1890                      | 820×820                                |
|                          | S13-MS-2000/10 |                        |                   | 1.55                            | 18.3                      | 0.40                              |                                           | 715                          | 4430                          | 1900×1700×1890                      | 820×820                                |
| 2500                     | S11-MS-2500/10 |                        |                   | 2.29                            | 21.2                      | 0.40                              |                                           | 915                          | 5360                          | 2115×1735×2960                      | 1070×1070                              |
|                          | S13-MS-2500/10 |                        |                   | 1.83                            | 21.2                      | 0.40                              |                                           | 915                          | 5360                          | 2115×1735×2960                      | 1070×1070                              |

表中斜线上方的负载损耗值适用于Dyn11联结组，斜线下方的负载损耗值适用于Yyn0联结组。以上尺寸根据产品优化会相应调整，最终以图纸确认为准。  
Load loss which at left side of slash in the table are applied to Dyn11 vector group, and the right side are applied to Yyn0 vector group.  
The above dimensions will be adjusted according to the product optimization with final drawing approval.

6kV、10kV级地下式变压器  
6 kV, 10kV underground transformer

| 容量<br>Capacity<br>(kV-A) | 型号<br>Model      | 电压组合<br>Voltage        |                   | 空载损耗<br>No load<br>loss<br>(kW) | 负载损耗<br>Load loss<br>(kW) | 空载电流<br>No load<br>current<br>(%) | 短路阻抗<br>Short-circuit<br>impedance<br>(%) | 油重<br>Oil-<br>weight<br>(kg) | 总重<br>Total<br>weight<br>(kg) | 本体尺寸<br>Dimensions<br>L×W×H<br>(mm) | 轨距<br>Gauge<br>distance<br>D×E<br>(mm) |
|--------------------------|------------------|------------------------|-------------------|---------------------------------|---------------------------|-----------------------------------|-------------------------------------------|------------------------------|-------------------------------|-------------------------------------|----------------------------------------|
|                          |                  | 高压<br>(kV)<br>H.V      | 低压<br>(kV)<br>L.V |                                 |                           |                                   |                                           |                              |                               |                                     |                                        |
| 50                       | S11-M-D-50/10    | 6<br>6.3<br>10<br>10.5 | 0.4               | 0.130                           | 0.910/0.870               | 1.3                               | 4.0                                       | 135                          | 485                           | 900×855×850                         | 550×660                                |
|                          | S13-M-D-50/10    |                        |                   | 0.100                           | 0.910/0.870               | 1.3                               | 4.0                                       | 135                          | 485                           | 900×855×850                         | 550×660                                |
|                          | SH15-M-D-50/10   |                        |                   | 0.043                           | 0.910/0.870               | 1.2                               | 4.0                                       | 145                          | 505                           | 970×855×885                         | 550×660                                |
| 63                       | S11-M-D-63/10    |                        |                   | 0.150                           | 1.09/1.04                 | 1.2                               | 4.0                                       | 135                          | 515                           | 900×855×870                         | 550×660                                |
|                          | S13-M-D-63/10    |                        |                   | 0.110                           | 1.09/1.04                 | 1.2                               | 4.0                                       | 135                          | 515                           | 900×855×870                         | 550×660                                |
|                          | SH15-M-D-63/10   |                        |                   | 0.050                           | 1.09/1.04                 | 1.1                               | 4.0                                       | 160                          | 555                           | 1000×855×905                        | 550×660                                |
| 80                       | S11-M-D-80/10    |                        |                   | 0.180                           | 1.31/1.25                 | 1.2                               | 4.0                                       | 150                          | 560                           | 900×855×920                         | 550×660                                |
|                          | S13-M-D-80/10    |                        |                   | 0.130                           | 1.31/1.25                 | 1.2                               | 4.0                                       | 150                          | 560                           | 900×855×920                         | 550×660                                |
|                          | SH15-M-D-80/10   |                        |                   | 0.060                           | 1.31/1.25                 | 1.0                               | 4.0                                       | 170                          | 645                           | 1050×855×950                        | 550×660                                |
| 100                      | S11-M-D-100/10   |                        |                   | 0.200                           | 1.58/1.50                 | 1.1                               | 4.0                                       | 160                          | 620                           | 900×855×960                         | 550×660                                |
|                          | S13-M-D-100/10   |                        |                   | 0.150                           | 1.58/1.50                 | 1.1                               | 4.0                                       | 160                          | 620                           | 900×855×960                         | 550×660                                |
|                          | SH15-M-D-100/10  |                        |                   | 0.075                           | 1.58/1.50                 | 0.90                              | 4.0                                       | 185                          | 745                           | 1070×855×980                        | 550×660                                |
| 125                      | S11-M-D-125/10   |                        |                   | 0.240                           | 1.89/1.80                 | 1.1                               | 4.0                                       | 180                          | 715                           | 960×855×1020                        | 550×660                                |
|                          | S13-M-D-125/10   |                        |                   | 0.170                           | 1.89/1.80                 | 1.1                               | 4.0                                       | 180                          | 715                           | 960×855×1020                        | 550×660                                |
|                          | SH15-M-D-125/10  |                        |                   | 0.085                           | 1.89/1.80                 | 0.80                              | 4.0                                       | 200                          | 840                           | 1100×855×1000                       | 550×660                                |
| 160                      | S11-M-D-160/10   |                        |                   | 0.280                           | 2.31/2.20                 | 1.0                               | 4.0                                       | 180                          | 740                           | 960×855×1040                        | 550×660                                |
|                          | S13-M-D-160/10   |                        |                   | 0.200                           | 2.31/2.20                 | 1.0                               | 4.0                                       | 180                          | 740                           | 960×855×1040                        | 550×660                                |
|                          | SH15-M-D-160/10  |                        |                   | 0.100                           | 2.31/2.20                 | 0.60                              | 4.0                                       | 215                          | 910                           | 1130×855×1020                       | 550×660                                |
| 200                      | S11-M-D-200/10   |                        |                   | 0.340                           | 2.73/2.60                 | 1.0                               | 4.0                                       | 185                          | 830                           | 1250×905×1050                       | 550×660                                |
|                          | S13-M-D-200/10   |                        |                   | 0.240                           | 2.73/2.60                 | 1.0                               | 4.0                                       | 185                          | 830                           | 1250×905×1050                       | 550×660                                |
|                          | SBH15-M-D-200/10 |                        |                   | 0.120                           | 2.73/2.60                 | 0.60                              | 4.0                                       | 230                          | 995                           | 1215×960×900                        | 660×660                                |
| 250                      | S11-M-D-250/10   |                        |                   | 0.400                           | 3.20/3.05                 | 0.90                              | 4.0                                       | 195                          | 935                           | 1310×925×1065                       | 550×660                                |
|                          | S13-M-D-250/10   |                        |                   | 0.290                           | 3.20/3.05                 | 0.90                              | 4.0                                       | 195                          | 935                           | 1310×925×1065                       | 550×660                                |
|                          | SBH15-M-D-250/10 |                        |                   | 0.140                           | 3.20/3.05                 | 0.60                              | 4.0                                       | 250                          | 1095                          | 1235×990×935                        | 660×660                                |
| 315                      | S11-M-D-315/10   |                        |                   | 0.480                           | 3.83/3.65                 | 0.90                              | 4.0                                       | 210                          | 1060                          | 1370×965×1080                       | 550×660                                |
|                          | S13-M-D-315/10   |                        |                   | 0.340                           | 3.83/3.65                 | 0.90                              | 4.0                                       | 210                          | 1060                          | 1370×965×1080                       | 550×660                                |
|                          | SBH15-M-D-315/10 |                        |                   | 0.170                           | 3.83/3.65                 | 0.50                              | 4.0                                       | 270                          | 1275                          | 1245×1050×960                       | 660×660                                |
| 400                      | S11-M-D-400/10   |                        |                   | 0.570                           | 4.52/4.30                 | 0.80                              | 4.0                                       | 230                          | 1250                          | 1370×990×1105                       | 660×660                                |
|                          | S13-M-D-400/10   |                        |                   | 0.410                           | 4.52/4.30                 | 0.80                              | 4.0                                       | 230                          | 1250                          | 1370×990×1105                       | 660×660                                |
|                          | SBH15-M-D-400/10 |                        |                   | 0.200                           | 4.52/4.30                 | 0.50                              | 4.0                                       | 295                          | 1535                          | 1690×1080×980                       | 660×660                                |
| 500                      | S11-M-D-500/10   |                        |                   | 0.680                           | 5.41/5.15                 | 0.80                              | 4.0                                       | 250                          | 1515                          | 1480×1110×1185                      | 660×660                                |
|                          | S13-M-D-500/10   |                        |                   | 0.480                           | 5.41/5.15                 | 0.80                              | 4.0                                       | 250                          | 1515                          | 1480×1110×1185                      | 660×660                                |
|                          | SBH15-M-D-500/10 |                        |                   | 0.240                           | 5.41/5.15                 | 0.50                              | 4.0                                       | 330                          | 1670                          | 1720×1100×1015                      | 820×820                                |
| 630                      | S11-M-D-630/10   |                        |                   | 0.810                           | 6.20                      | 0.60                              | 4.5                                       | 280                          | 1710                          | 1635×1165×1200                      | 660×660                                |
|                          | S13-M-D-630/10   |                        |                   | 0.570                           | 6.20                      | 0.60                              | 4.5                                       | 280                          | 1710                          | 1635×1165×1200                      | 660×660                                |
|                          | SBH15-M-D-630/10 |                        |                   | 0.320                           | 6.20                      | 0.30                              | 4.5                                       | 365                          | 2005                          | 1815×1195×1070                      | 820×820                                |
| 800                      | S11-M-D-800/10   |                        |                   | 0.980                           | 7.50                      | 0.60                              | 4.5                                       | 350                          | 2200                          | 1800×1260×1300                      | 660×660                                |
|                          | S13-M-D-800/10   |                        |                   | 0.700                           | 7.50                      | 0.60                              | 4.5                                       | 350                          | 2200                          | 1800×1260×1300                      | 660×660                                |
|                          | SBH15-M-D-800/10 |                        |                   | 0.380                           | 7.50                      | 0.30                              | 4.5                                       | 480                          | 2325                          | 1885×1195×1090                      | 820×820                                |

表中斜线上方的负载损耗值适用于Dyn11联结组，斜线下方的负载损耗值适用于Yyn0联结组。以上尺寸根据产品优化会相应调整，最终以图纸确认为准。  
Load loss which at left side of slash in the table are applied to Dyn11 vector group, and the right side are applied to Yyn0 vector group.  
The above dimensions will be adjusted according to the product optimization with final drawing approval.

20kV级地下式变压器  
20 kV underground transformer

| 容量<br>Capacity<br>(kV-A) | 型号<br>Model      | 电压组合<br>Voltage   |                   | 空载损耗<br>No load<br>loss<br>(kW) | 负载损耗<br>Load loss<br>(kW) | 空载电流<br>No load<br>current<br>(%) | 短路阻抗<br>Short-circuit<br>impedance<br>(%) | 油重<br>Oil-<br>weight<br>(kg) | 总重<br>Total<br>weight<br>(kg) | 本体尺寸<br>Dimensions<br>L×W×H<br>(mm) | 轨距<br>Gauge<br>distance<br>D×E<br>(mm) |
|--------------------------|------------------|-------------------|-------------------|---------------------------------|---------------------------|-----------------------------------|-------------------------------------------|------------------------------|-------------------------------|-------------------------------------|----------------------------------------|
|                          |                  | 高压<br>(kV)<br>H.V | 低压<br>(kV)<br>L.V |                                 |                           |                                   |                                           |                              |                               |                                     |                                        |
| 50                       | S11-M-D-50/20    | 20                | 0.4               | 0.130                           | 1.01/0.960                | 2.0                               | 5.5                                       | 140                          | 500                           | 900×855×870                         | 550×660                                |
|                          | S13-M-D-50/20    |                   |                   | 0.104                           | 1.01/0.960                | 2.0                               | 5.5                                       | 140                          | 500                           | 900×855×870                         | 550×660                                |
|                          | SH15-M-D-50/20   |                   |                   | 0.055                           | 1.01/0.960                | 1.2                               | 5.5                                       | 160                          | 530                           | 1000×855×900                        | 550×660                                |
| 63                       | S11-M-D-63/20    |                   |                   | 0.150                           | 1.20/1.15                 | 1.9                               | 5.5                                       | 150                          | 530                           | 900×855×890                         | 550×660                                |
|                          | S13-M-D-63/20    |                   |                   | 0.120                           | 1.20/1.15                 | 1.9                               | 5.5                                       | 150                          | 530                           | 900×855×890                         | 550×660                                |
|                          | SH15-M-D-63/20   |                   |                   | 0.065                           | 1.20/1.15                 | 1.1                               | 5.5                                       | 175                          | 580                           | 1030×855×940                        | 550×660                                |
| 80                       | S11-M-D-80/20    |                   |                   | 0.180                           | 1.44/1.37                 | 1.8                               | 5.5                                       | 165                          | 580                           | 900×855×950                         | 550×660                                |
|                          | S13-M-D-80/20    |                   |                   | 0.144                           | 1.44/1.37                 | 1.8                               | 5.5                                       | 165                          | 580                           | 900×855×950                         | 550×660                                |
|                          | SH15-M-D-80/20   |                   |                   | 0.075                           | 1.44/1.37                 | 1.0                               | 5.5                                       | 200                          | 675                           | 1080×855×980                        | 550×660                                |
| 100                      | S11-M-D-100/20   |                   |                   | 0.200                           | 1.73/1.65                 | 1.6                               | 5.5                                       | 175                          | 650                           | 940×855×980                         | 550×660                                |
|                          | S13-M-D-100/20   |                   |                   | 0.160                           | 1.73/1.65                 | 1.6                               | 5.5                                       | 175                          | 650                           | 940×855×980                         | 550×660                                |
|                          | SH15-M-D-100/20  |                   |                   | 0.090                           | 1.73/1.65                 | 0.90                              | 5.5                                       | 220                          | 770                           | 1110×855×1020                       | 550×660                                |
| 125                      | S11-M-D-125/20   |                   |                   | 0.240                           | 2.08/1.98                 | 1.5                               | 5.5                                       | 190                          | 750                           | 980×855×1050                        | 550×660                                |
|                          | S13-M-D-125/20   |                   |                   | 0.192                           | 2.08/1.98                 | 1.5                               | 5.5                                       | 190                          | 750                           | 980×855×1050                        | 550×660                                |
|                          | SH15-M-D-125/20  |                   |                   | 0.100                           | 2.08/1.98                 | 0.80                              | 5.5                                       | 235                          | 885                           | 1150×855×1030                       | 550×660                                |
| 160                      | S11-M-D-160/20   |                   |                   | 0.290                           | 2.54/2.42                 | 1.4                               | 5.5                                       | 200                          | 780                           | 1010×855×1080                       | 550×660                                |
|                          | S13-M-D-160/20   |                   |                   | 0.232                           | 2.54/2.42                 | 1.4                               | 5.5                                       | 200                          | 780                           | 1010×855×1080                       | 550×660                                |
|                          | SH15-M-D-160/20  |                   |                   | 0.120                           | 2.54/2.42                 | 0.60                              | 5.5                                       | 250                          | 950                           | 1170×855×1050                       | 550×660                                |
| 200                      | S11-M-D-200/20   |                   |                   | 0.340                           | 3.00/2.86                 | 1.3                               | 5.5                                       | 210                          | 870                           | 1280×925×1100                       | 550×660                                |
|                          | S13-M-D-200/20   |                   |                   | 0.272                           | 3.00/2.86                 | 1.3                               | 5.5                                       | 210                          | 870                           | 1280×925×1100                       | 550×660                                |
|                          | SBH15-M-D-200/20 |                   |                   | 0.145                           | 3.00/2.86                 | 0.60                              | 5.5                                       | 270                          | 1130                          | 1255×1000×920                       | 660×660                                |
| 250                      | S11-M-D-250/20   |                   |                   | 0.400                           | 3.52/3.35                 | 1.2                               | 5.5                                       | 225                          | 980                           | 1340×955×1125                       | 550×660                                |
|                          | S13-M-D-250/20   |                   |                   | 0.320                           | 3.52/3.35                 | 1.2                               | 5.5                                       | 225                          | 980                           | 1340×955×1125                       | 550×660                                |
|                          | SBH15-M-D-250/20 |                   |                   | 0.165                           | 3.52/3.35                 | 0.60                              | 5.5                                       | 285                          | 1180                          | 1275×1020×955                       | 660×660                                |
| 315                      | S11-M-D-315/20   |                   |                   | 0.480                           | 4.21/4.01                 | 1.1                               | 5.5                                       | 240                          | 1100                          | 1400×985×1160                       | 550×660                                |
|                          | S13-M-D-315/20   |                   |                   | 0.384                           | 4.21/4.01                 | 1.1                               | 5.5                                       | 240                          | 1100                          | 1400×985×1160                       | 550×660                                |
|                          | SBH15-M-D-315/20 |                   |                   | 0.200                           | 4.21/4.01                 | 0.50                              | 5.5                                       | 300                          | 1410                          | 1305×1080×980                       | 660×660                                |
| 400                      | S11-M-D-400/20   |                   |                   | 0.570                           | 4.97/4.73                 | 1.0                               | 5.5                                       | 255                          | 1280                          | 1420×1000×1185                      | 660×660                                |
|                          | S13-M-D-400/20   |                   |                   | 0.456                           | 4.97/4.73                 | 1.0                               | 5.5                                       | 255                          | 1280                          | 1420×1000×1185                      | 660×660                                |
|                          | SBH15-M-D-400/20 |                   |                   | 0.240                           | 4.97/4.73                 | 0.50                              | 5.5                                       | 330                          | 1585                          | 1730×1120×1000                      | 660×660                                |
| 500                      | S11-M-D-500/20   |                   |                   | 0.680                           | 5.94/5.66                 | 1.0                               | 5.5                                       | 285                          | 1580                          | 1500×1130×1215                      | 660×660                                |
|                          | S13-M-D-500/20   |                   |                   | 0.544                           | 5.94/5.66                 | 1.0                               | 5.5                                       | 285                          | 1580                          | 1500×1130×1215                      | 660×660                                |
|                          | SBH15-M-D-500/20 |                   |                   | 0.290                           | 5.94/5.66                 | 0.50                              | 5.5                                       | 350                          | 1730                          | 1760×1140×1035                      | 820×820                                |
| 630                      | S11-M-D-630/20   |                   |                   | 0.810                           | 6.82                      | 0.90                              | 6.0                                       | 305                          | 1750                          | 1655×1190×1250                      | 660×660                                |
|                          | S13-M-D-630/20   |                   |                   | 0.648                           | 6.82                      | 0.90                              | 6.0                                       | 305                          | 1750                          | 1655×1190×1250                      | 660×660                                |
|                          | SBH15-M-D-630/20 |                   |                   | 0.370                           | 6.82                      | 0.30                              | 6.0                                       | 395                          | 2120                          | 1860×1220×1090                      | 820×820                                |
| 800                      | S11-M-D-800/20   |                   |                   | 0.980                           | 8.25                      | 0.80                              | 6.0                                       | 385                          | 2300                          | 1840×1280×1330                      | 660×660                                |
|                          | S13-M-D-800/20   |                   |                   | 0.784                           | 8.25                      | 0.80                              | 6.0                                       | 385                          | 2300                          | 1840×1280×1330                      | 660×660                                |
|                          | SBH15-M-D-800/20 |                   |                   | 0.450                           | 8.25                      | 0.30                              | 6.0                                       | 520                          | 2505                          | 1900×1240×1120                      | 820×820                                |

表中斜线上方的负载损耗值适用于Dyn11联结组，斜线下方的负载损耗值适用于Yyn0联结组。以上尺寸根据产品优化会相应调整，最终以图纸确认为准。  
Load loss which at left side of slash in the table are applied to Dyn11 vector group, and the right side are applied to Yyn0 vector group.  
The above dimensions will be adjusted according to the product optimization with final drawing approval.

三相双绕组无励磁调压立体卷铁心配电变压器  
6 kV, 10 kV three-phase two-winding coil core distribution transformer with octc

| 容量<br>Capacity<br>(kV·A) | 型号<br>Model     | 电压组合<br>Voltage   |                   | 空载损耗<br>No load<br>loss<br>(kW) | 负载损耗<br>Load loss<br>(kW) | 空载电流<br>No load<br>current<br>(%) | 短路阻抗<br>Short-circuit<br>impedance<br>(%) | 油重<br>Oil-<br>weight<br>(kg) | 总重<br>Total<br>weight<br>(kg) | 本体尺寸<br>Dimensions<br>L×W×H<br>(mm) | 轨距<br>Gauge<br>distance<br>D×E<br>(mm) |
|--------------------------|-----------------|-------------------|-------------------|---------------------------------|---------------------------|-----------------------------------|-------------------------------------------|------------------------------|-------------------------------|-------------------------------------|----------------------------------------|
|                          |                 | 高压<br>(kV)<br>H.V | 低压<br>(kV)<br>L.V |                                 |                           |                                   |                                           |                              |                               |                                     |                                        |
| 50                       | S13-M-RL-50/10  | 10                | 0.4               | 0.100                           | 0.910/0.870               | 0.24                              | 4.0                                       | 100                          | 385                           | 840×750×1025                        | 400×550                                |
| 100                      | S13-M-RL-100/10 |                   |                   | 0.150                           | 1.58/1.50                 | 0.21                              | 4.0                                       | 135                          | 545                           | 905×810×1010                        | 400×550                                |
| 200                      | S13-M-RL-200/10 |                   |                   | 0.240                           | 2.73/2.60                 | 0.18                              | 4.0                                       | 155                          | 785                           | 1150×995×1105                       | 400×660                                |
| 315                      | S13-M-RL-315/10 |                   |                   | 0.340                           | 3.83/3.65                 | 0.16                              | 4.0                                       | 210                          | 1040                          | 1175×1020×1200                      | 550×550                                |
| 400                      | S13-M-RL-400/10 |                   |                   | 0.410                           | 4.52/4.30                 | 0.16                              | 4.0                                       | 220                          | 1185                          | 1230×1065×1245                      | 550×550                                |
| 500                      | S13-M-RL-500/10 |                   |                   | 0.480                           | 5.41/5.15                 | 0.16                              | 4.0                                       | 280                          | 1415                          | 1280×1265×1355                      | 550×660                                |
| 630                      | S13-M-RL-630/10 |                   |                   | 0.570                           | 6.20                      | 0.15                              | 4.5                                       | 340                          | 1660                          | 1300×1300×1405                      | 550×660                                |

表中斜线上方的负载损耗值适用于Dyn11联结组，斜线下方的负载损耗值适用于Yyn0联结组。以上尺寸根据产品优化会相应调整，最终以图纸确认为准。  
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三相双绕组无励磁调压高过载配电变压器  
6 kV, 10 kV three-phase two-winding high overload distribution transformer with octc

| 容量<br>Capacity<br>(kV·A) | 型号<br>Model         | 电压组合<br>Voltage   |                   | 空载损耗<br>No load<br>loss<br>(kW) | 负载损耗<br>Load loss<br>(kW) | 空载电流<br>No load<br>current<br>(%) | 短路阻抗<br>Short-circuit<br>impedance<br>(%) | 油重<br>Oil-<br>weight<br>(kg) | 总重<br>Total<br>weight<br>(kg) | 本体尺寸<br>Dimensions<br>L×W×H<br>(mm) | 轨距<br>Gauge<br>distance<br>D×E<br>(mm) |
|--------------------------|---------------------|-------------------|-------------------|---------------------------------|---------------------------|-----------------------------------|-------------------------------------------|------------------------------|-------------------------------|-------------------------------------|----------------------------------------|
|                          |                     | 高压<br>(kV)<br>H.V | 低压<br>(kV)<br>L.V |                                 |                           |                                   |                                           |                              |                               |                                     |                                        |
| 50                       | S13-M(F)-50/10GZ    | 10                | 0.4               | 0.100                           | 0.910/0.870               | 1.3                               | 4.0                                       | 90                           | 450                           | 1070×735×890                        | 400×400                                |
|                          | SH15-M(F)-50/10GZ   |                   |                   | 0.043                           | 0.910/0.870               | 1.2                               | 4.0                                       | 180                          | 600                           | 1270×790×820                        | 550×550                                |
| 100                      | S13-M(F)-100/10GZ   |                   |                   | 0.150                           | 1.58/1.50                 | 1.1                               | 4.0                                       | 130                          | 675                           | 1285×900×1000                       | 400×550                                |
|                          | SH15-M(F)-100/10GZ  |                   |                   | 0.075                           | 1.58/1.50                 | 0.90                              | 4.0                                       | 200                          | 800                           | 1375×910×850                        | 550×550                                |
| 200                      | S13-M(F)-200/10GZ   |                   |                   | 0.240                           | 2.73/2.60                 | 1.0                               | 4.0                                       | 215                          | 1130                          | 1415×1015×1225                      | 550×550                                |
|                          | SBH15-M(F)-200/10GZ |                   |                   | 0.120                           | 2.73/2.60                 | 0.60                              | 4.0                                       | 155                          | 925                           | 1800×1200×1020                      | 660×660                                |

表中斜线上方的负载损耗值适用于Dyn11联结组，斜线下方的负载损耗值适用于Yyn0联结组。以上尺寸根据产品优化会相应调整，最终以图纸确认为准。  
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The above dimensions will be adjusted according to the product optimization with final drawing approval.

产品应用领域  
Applications

油浸式配电变压器具有安全性好、维护简单、占地面积小、成套性强、安装方便、造型美观等特点。广泛应用于城市电网、农村电网、企业、楼宇、场馆、车站、码头、矿山、油田等配电系统和用电场所。

The oil immersed distribution transformer has the characteristics of good safety, simple maintenance, small occupied area, highly integrated, convenient installation and elegant appearance. Widely used in urban power grid, rural power grid, enterprises, buildings, stadiums, stations, wharves, mines, oil fields and other power distribution systems and electric field.