

## ترانسفورماتور توزیع روغنی کم تلفات (AB')

### Three-Phase Oil Immersed HV/LV Distribution Typical Transformers Technical Specification 20/0.4kV, Based on Tavanir Requirements Combination of Losses Acc. HD 428.1.S1(DIN 42500): AB'

#### Description :

- Acc. to IEC standards;
- Three-phase transformers, for indoor or outdoor use;
- Step-down type (1);
- Rated frequency: 50 Hz (1);
- Max ambient Temp: 45°C (1);
- Mineral oil immersed (1);
- Conservator Type (3);
- Cooling: ONAN;
- Final Colour RAL 7038 or 7032 (1);
- Operation altitude up to 1000m above sea level;

| Power<br>(1) | Voltage<br>(1) |      | Taps in HV side<br>(1) | Vector<br>group<br>(1) | Rated<br>Impedance | Losses  |             | Noise<br>level | Efficiency<br>at full<br>load (min)<br>P.F.=0.8 | Total<br>Weight<br>(max) | Overall Dimensions<br>(max) |               |               | Wheels |     |     |
|--------------|----------------|------|------------------------|------------------------|--------------------|---------|-------------|----------------|---|--------------------------|-----------------------------|---------------|---------------|--------|-----|-----|
|              | HV             | LV   |                        |                        |                    | No-load | Load<br>(2) |                |   |                          | interval<br>I               | diameter<br>D | interval<br>W |        |     |     |
|              | [kVA]          | [kV] |                        |                        |                    |         |             |                |   |                          |                             |               |               | [kV]   | [%] | [W] |
| 25           | 20             | 0.4  | ±1*4                   | Yzn5                   | 4                  | 110     | 700         | 48             | 95.72   | 375                      | 857                         | 708           | 1236          | 520    | -   | -   |
| 50           | 20             | 0.4  | ±1*4                   | Yzn5                   | 4                  | 145     | 1100        | 50             | 96.76   | 525                      | 900                         | 715           | 1307          | 520    | -   | -   |
| 75           | 20             | 0.4  | ±1*4                   | Yzn5                   | 4                  | 203     | 1425        | 52             | 97.02   | 575                      | 1001                        | 707           | 1456          | 520    | -   | -   |
| 100          | 20             | 0.4  | ±1*4                   | Yzn5                   | 4                  | 260     | 1750        | 54             | 97.30   | 660                      | 1012                        | 713           | 1440          | 520    | -   | -   |
| 125          | 20             | 0.4  | ±1*4                   | Yzn5                   | 4                  | 310     | 2000        | 55             | 97.55   | 810                      | 1066                        | 735           | 1479          | 520    | -   | -   |
| 160          | 20             | 0.4  | ±1*4                   | Yzn5                   | 4                  | 375     | 2350        | 56             | 97.73   | 905                      | 1108                        | 730           | 1492          | 520    | -   | -   |
| 200          | 20             | 0.4  | ±1*4                   | Yzn5                   | 4                  | 445     | 2760        | 58             | 97.87   | 1005                     | 1146                        | 806           | 1543          | 520    | -   | -   |
| 250          | 20             | 0.4  | ±2*2.5                 | Dyn5                   | 6                  | 530     | 3250        | 60             | 97.95   | 1185                     | 1368                        | 845           | 1516          | 520    | -   | -   |
| 315          | 20             | 0.4  | ±2*2.5                 | Dyn5                   | 6                  | 625     | 3850        | 61.5           | 98.10   | 1355                     | 1560                        | 970           | 1599          | 670    | -   | -   |
| 400          | 20             | 0.4  | ±2*2.5                 | Dyn5                   | 6                  | 750     | 4600        | 63             | 98.18   | 1595                     | 1643                        | 920           | 1840          | 670    | 150 | 50  |
| 500          | 20             | 0.4  | ±2*2.5                 | Dyn5                   | 6                  | 875     | 5450        | 64             | 98.31   | 1870                     | 1702                        | 970           | 1900          | 670    | 150 | 50  |
| 630          | 20             | 0.4  | ±2*2.5                 | Dyn5                   | 6                  | 940     | 6750        | 65             | 98.37   | 2225                     | 1785                        | 1060          | 1958          | 670    | 150 | 50  |
| 800          | 20             | 0.4  | ±2*2.5                 | Dyn5                   | 6                  | 1150    | 8500        | 66.4           | 98.38   | 2705                     | 1980                        | 1125          | 2025          | 670    | 150 | 50  |
| 1000         | 20             | 0.4  | ±2*2.5                 | Dyn5                   | 6                  | 1400    | 10500       | 68             | 98.41   | 3255                     | 1948                        | 1182          | 2289          | 820    | 200 | 68  |
| 1250         | 20             | 0.4  | ±2*2.5                 | Dyn5                   | 6                  | 1730    | 13200       | 69.25          | 98.38   | 3910                     | 2082                        | 1300          | 2320          | 820    | 200 | 68  |
| 1600         | 20             | 0.4  | ±2*2.5                 | Dyn5                   | 6                  | 2200    | 17000       | 71             | 98.39   | 4725                     | 2438                        | 1558          | 2490          | 820    | 200 | 68  |
| 2000         | 20             | 0.4  | ±2*2.5                 | Dyn5                   | 6                  | 2645    | 21200       | 72.4           | 98.4  | 5685                     | 2470                        | 1480          | 2520          | 1070   | 200 | 68  |



(1) Can be modified upon customer request .

(2) Load loss at 75°C.

(3) Hermetically sealed type transformer upon request .



## ترانسفورماتور توزیع روغنی کم تلفات (AB')

Standard Accessories of Distribution Transformer

| No. | Accessory                    | Power (kVA) |         |         |         |           |
|-----|------------------------------|-------------|---------|---------|---------|-----------|
|     |                              | 25-160      | 200-315 | 400-500 | 630-800 | 1000-2000 |
| 1   | HV bushing                   | •           | •       | •       | •       | •         |
| 2   | Arcing horns                 | •           | •       | •       | •       | •         |
| 3   | LV bushing                   | •           | •       | •       | •       | •         |
| 4   | Oil level indicator          | •           | •       | •       | •       | •         |
| 5   | Buchholz relay               | -           | -       | -       | -       | •         |
| 6   | Oil drain & sampling valve   | •           | •       | •       | •       | •         |
| 7   | Earthing bolt                | •           | •       | •       | •       | •         |
| 8   | Wheel                        | -           | -       | •       | •       | •         |
| 9   | Off circuit tap changer      | •           | •       | •       | •       | •         |
| 10  | Name plate                   | •           | •       | •       | •       | •         |
| 11  | Oil temperature indicator    | -           | -       | -       | •       | •         |
| 12  | Conservator tank drain valve | •           | •       | •       | •       | •         |
| 13  | Conservator                  | •           | •       | •       | •       | •         |
| 14  | Conservator filling plug     | •           | •       | •       | •       | •         |
| 15  | Thermometer pocket           | -           | •       | •       | •       | •         |
| 16  | Dehydrating breather         | •           | •       | •       | •       | •         |

• Applied accessory



Notes :

- For more technical data , please contact us .
- Please ask for technical data confirmation before finalizing your order .

