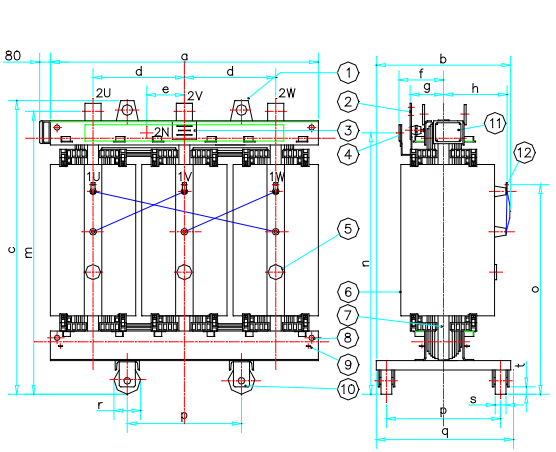
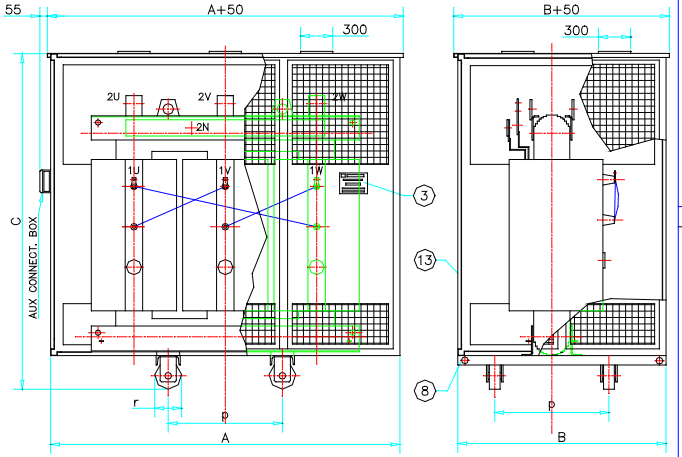
# TECHNICAL AND ELECTRICAL CHARACTERISTICS OF CAST RESIN TRANSFORMERS CLASS 12kV

Tesar

04–2000

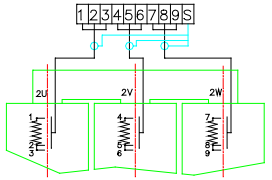
Ref. standards: IEC–726



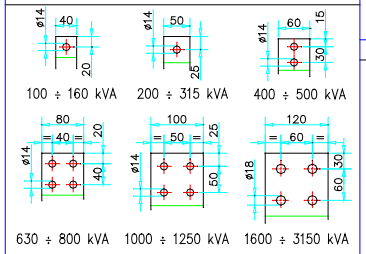




We reserve the right to change the technical datas without advising

**CONNECTION SCHEME 3 PT100 OHM**



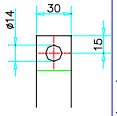

**SECONDARY TERMINAL**




**TAPS FOR PRIMARY VARIATION**

| VAR. % | POSITIONS |
|---|---|
| +5% | 6–5 |
| +2.5% | 5–7 |
| 0 | 7–4 |
| −2.5% | 4–8 |
| −5% | 8–3 |

**PRIMARY TERMINAL**




1 LIFTING EYES
2 SECONDARY TERMINAL
3 RATING PLATE
4 NEUTRAL TERMINAL
5 PRIMARY TAPPING CHANGE
6 PRIMARY WINDING
7 CORE
8 PULLING EYES
9 HEARTING PLATE
10 TROLLEY
11 CONNECTION BOX
12 PRIMARY TERMINAL
13 HOUSING IP20–23–31

| kVA | a (mm) | b (mm) | c (mm) | d (mm) | e (mm) | f (mm) | g (mm) | h (mm) | m (mm) | n (mm) | o (mm) | p (mm) | q (mm) | r (mm) | s (mm) | t (mm) | Weight (Kg) | Air for cooling (mc/min) | A (mm) | B (mm) | C (mm) | Weight (Kg) | Po (W) | Pcc 75° (W) | Pcc 120° (W) | Vcc (%) | Io (%) | LpA (dB) | η 4/4 cosφ=1 | η 4/4 cosφ=0.9 | η 4/4 cosφ=0.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 1070 | 700 | 1165 | 355 | 140 | 225 | 145 | 300 | 1115 | 1045 | 835 | 520 | 600 | 125 | 40 | 35 | 500 | 7 | 1750 | 1100 | 1600 | 250 | 440 | 1700 | 1950 | 6 | 2.3 | 48 | 97.82 | 97.57 | 97.27 |
| 160 | 1140 | 720 | 1185 | 380 | | 230 | 150 | 320 | 1135 | 1065 | 845 | | | | | | 630 | 11 | | | | | 610 | 2400 | 2760 | | 2 | 51 | 98.09 | 97.88 | 97.61 |
| 250 | 1215 | 730 | 1240 | 405 | | 250 | 165 | 330 | 1215 | 1115 | 865 | | | | | | 900 | 15 | | | | | 820 | 3300 | 3800 | | 1.8 | 54 | 98.32 | 98.14 | 97.91 |
| 315 | 1300 | 760 | 1340 | 430 | | 255 | 165 | 360 | 1315 | 1215 | 870 | | | | | | 1050 | 18 | | | | | 1000 | 4000 | 4600 | | 1.7 | 56 | 98.40 | 98.22 | 98.00 |
| 400 | 1350 | 820 | 1365 | 450 | | 260 | 175 | 345 | 1350 | 1225 | 930 | 670 | 750 | | | | 1200 | 22 | 1950 | 1200 | 1950 | 280 | 1150 | 4800 | 5500 | | 1.5 | 57 | 98.48 | 98.31 | 98.10 |
| 500 | 1350 | 825 | 1510 | 450 | | 265 | 175 | 350 | 1495 | 1370 | 1155 | | | | | | 1400 | 26 | | | | | 1400 | 5900 | 6780 | | 1.4 | 57 | 98.54 | 98.37 | 98.17 |
| 630 | 1450 | 845 | 1570 | 485 | | 275 | 185 | 370 | 1550 | 1415 | 1165 | | | | | | 1700 | 30 | | | | | 1500 | 6800 | 7800 | | 1.3 | 58 | 98.65 | 98.50 | 98.32 |
| 800 | 1470 | 855 | 1680 | 490 | | 280 | 190 | 380 | 1660 | 1525 | 1265 | | | | | | 2000 | 35 | | | | | 1800 | 8200 | 9400 | | 1.1 | 59 | 98.75 | 98.61 | 98.43 |
| 1000 | 1620 | 1000 | 1855 | 540 | 250 | 300 | 205 | 400 | 1830 | 1675 | 1365 | 820 | 1000 | 200 | 70 | 50 | 2550 | 42 | 2250 | 1350 | 2400 | 380 | 2000 | 8800 | 10000 | | 1 | 60 | 98.92 | 98.80 | 98.65 |
| 1250 | 1710 | 1020 | 1880 | 570 | | 305 | 210 | 420 | 1855 | 1700 | 1385 | | | | | | 2900 | 50 | | | | | 2400 | 11000 | 12650 | | 0.9 | 62 | 98.92 | 98.80 | 98.66 |
| 1600 | 1770 | 1020 | 2105 | 590 | | 320 | 225 | 420 | 2075 | 1885 | 1605 | | | | | | 3700 | 60 | | | | | 2800 | 12700 | 14600 | | 0.9 | 62 | 99.03 | 98.92 | 98.78 |
| 2000 | 1890 | 1180 | 2200 | 630 | | 330 | 230 | 480 | 2170 | 1980 | 1625 | 1070 | 1200 | | | | 4500 | 72 | 2600 | 1450 | 2600 | 450 | 3800 | 15600 | 18000 | | 0.8 | 63 | 99.03 | 98.92 | 98.78 |
| 2500 | 2000 | 1190 | 2275 | 670 | | 385 | 260 | 490 | 2245 | 2055 | 1635 | | | | | | 5350 | 91 | | | | | 4300 | 19000 | 21800 | | 0.7 | 65 | 99.06 | 98.96 | 98.83 |