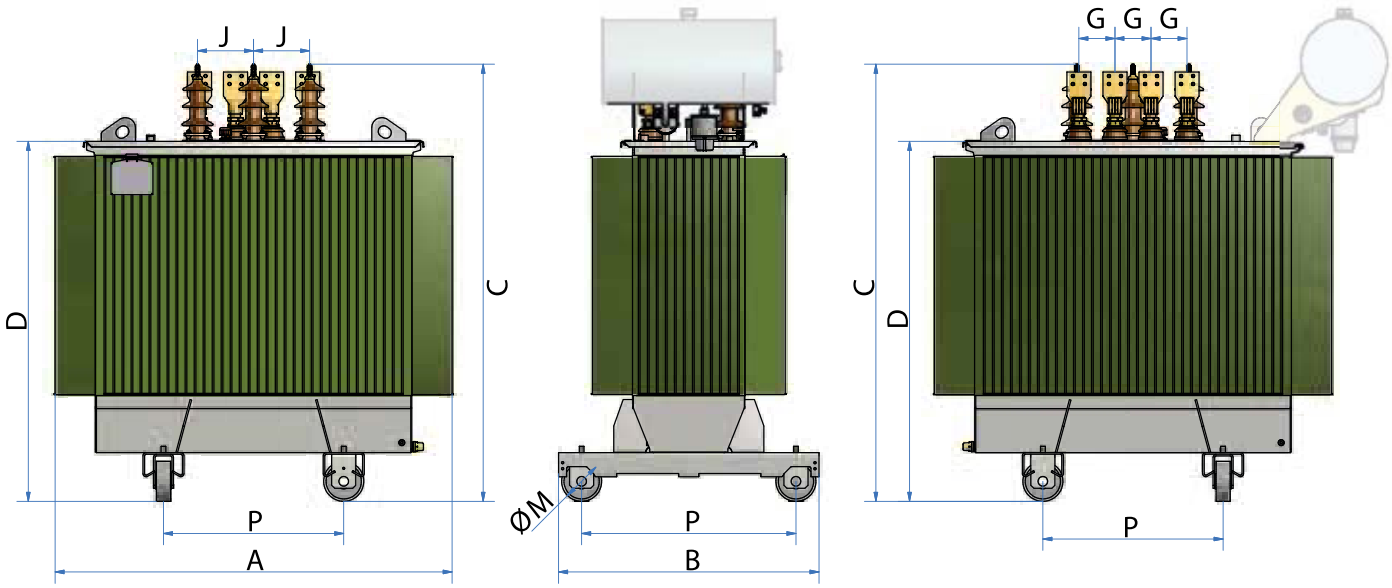
UNITRAFO
POWER QUALITY – SAFE ENVIRONMENT

# Oil-immersed Transformers
# Ecodesign 2
# Voltage Class 36 kV

| | |
|---|---|
| Standards | IEC 60076 – EN 50588 – EU 548/2014 |
| Insulating Class (Temperature Rise) | A (60/65 K) |
| Insulation Class MV | 36 kV FI 70 kV BIL 170 kV |
| Insulation Class LV | 1,1 kV FI 3 kV |
| Frequency | 50 Hz |
| Tappings MV | ± 4% or ± 2 x 2,5% |
| Tolerance | No tolerance on the losses |




Hermetically sealed – conservator on request

| Power kVA | $P_o$* W | | $P_k$* W | | Uk* % | LwA dB(A) | Total Kg | Oil Kg | A mm | B mm | C mm | D mm | M mm | P mm | J mm | G mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | $A_0$ -10% | 150 | $C_K$ | 1375 | 4 | 40 | 1130 | 270 | 1060 | 810 | 1520 | 1040 | 125 | 520 | 380 | 90 |
| 160 | $A_0$ -10% | 217 | $C_K$ | 1925 | 4 | 43 | 1420 | 310 | 1180 | 830 | 1560 | 1080 | 125 | 520 | 380 | 90 |
| 200 | $A_0$ -10% | 259 | $C_K$ | 2218 | 4 | 43 | 1610 | 330 | 1240 | 830 | 1600 | 1120 | 125 | 520 | 380 | 100 |
| 250 | $A_0$ -10% | 310 | $C_K$ | 2585 | 4 | 46 | 1750 | 380 | 1270 | 830 | 1700 | 1220 | 125 | 520 | 380 | 100 |
| 315 | $A_0$ -10% | 373 | $C_K$ | 3080 | 4 | 48 | 1960 | 400 | 1270 | 920 | 1750 | 1270 | 125 | 670 | 380 | 100 |
| 400 | $A_0$ -10% | 445 | $C_K$ | 3575 | 4 | 49 | 2140 | 420 | 1270 | 920 | 1820 | 1340 | 125 | 670 | 380 | 100 |
| 500 | $A_0$ -10% | 528 | $C_K$ | 4290 | 4 | 50 | 2440 | 490 | 1360 | 930 | 1860 | 1380 | 125 | 670 | 380 | 100 |
| 630 | $A_0$ -10% | 621 | $C_K$ | 5060 | 4 | 51 | 2830 | 550 | 1400 | 950 | 1940 | 1460 | 125 | 670 | 380 | 100 |
| 630 | $A_0$ -10% | 621 | $C_K$ | 5060 | 6 | 51 | 2710 | 570 | 1510 | 950 | 1860 | 1380 | 125 | 670 | 380 | 100 |
| 800 | $A_0$ -10% | 673 | $C_K$ | 6600 | 6 | 52 | 3190 | 640 | 1520 | 1050 | 1940 | 1460 | 125 | 670 | 380 | 100 |
| 1000 | $A_0$ -10% | 797 | $C_K$ | 8360 | 6 | 54 | 3400 | 650 | 1460 | 1090 | 2040 | 1560 | 160 | 820 | 380 | 100 |
| 1250 | $A_0$ -10% | 983 | $B_K$ | 10450 | 6 | 55 | 3890 | 760 | 1540 | 1130 | 2140 | 1660 | 160 | 820 | 380 | 100 |
| 1600 | $A_0$ -10% | 1242 | $B_K$ | 13200 | 6 | 57 | 4480 | 870 | 1550 | 1280 | 2240 | 1760 | 160 | 820 | 380 | 180 |
| 2000 | $A_0$ -10% | 1500 | $B_K$ | 16500 | 6 | 59 | 4790 | 960 | 2040 | 1260 | 2240 | 1760 | 200 | 1070 | 380 | 180 |
| 2500 | $A_0$ -10% | 1811 | $B_K$ | 20350 | 6 | 62 | 5540 | 1140 | 2030 | 1270 | 2340 | 1860 | 200 | 1070 | 380 | 220 |
| 3150 | $A_0$ -10% | 2277 | $B_K$ | 25300 | 6 | 63 | 7690 | 1610 | 2630 | 1340 | 2630 | 2150 | 200 | 1070 | 380 | 220 |

* Data referred to 75°C at rated voltage
Po = Non load losses | Pk = Load losses | Ptot (Po+Pk) = Total losses

**N.B. Dimensions and weights are preliminary and will be confirmed upon order**

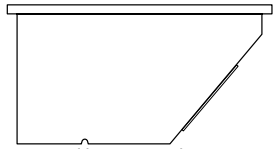
# Standard equipment

- MV regulation tappings ± 2x2,5% wired to off-circuit tap changing switch with external operating handle
- Primary bushings, porcelain (3 pcs) DIN 42531
- Secondary porcelain bushings (4 pcs) line terminals plus Neutral bushing DIN 42530
- Oil drain valve A22
- Bi-directional floor rollers (removable)
- Lugs/eyebolts for lifting and movement
- Earthing terminals, type M12
- Ratingplates (2 pcs) in accordance with IEC 60076 (whereof one unmounted)
- Thermometer pocket, type DIN 42554
- Oil filler cap
- Standard testing with relevant test certificate
- Documentation as digital files

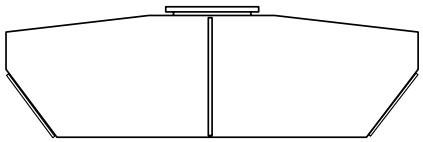
# Options

Optional we can adapt our transformers for your special needs. Please contact us for more information.

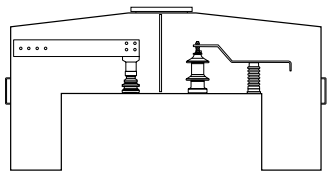
- Pressure relay QUALITROL with 2 contacts
- Oil temperature indicator with two electrical contacts
- Expansion tank
- Buchholz relay
- Drying device
- Elastimold connections
- Protected housings in coated steel – color: RAL 7031
- Marshalling box
- Windings in copper
- Alternative temperature risings and classes
- Double primary- or secondery voltage
- Alternative frequencies
- Low mounted secondary bushings
- Vector group on demand



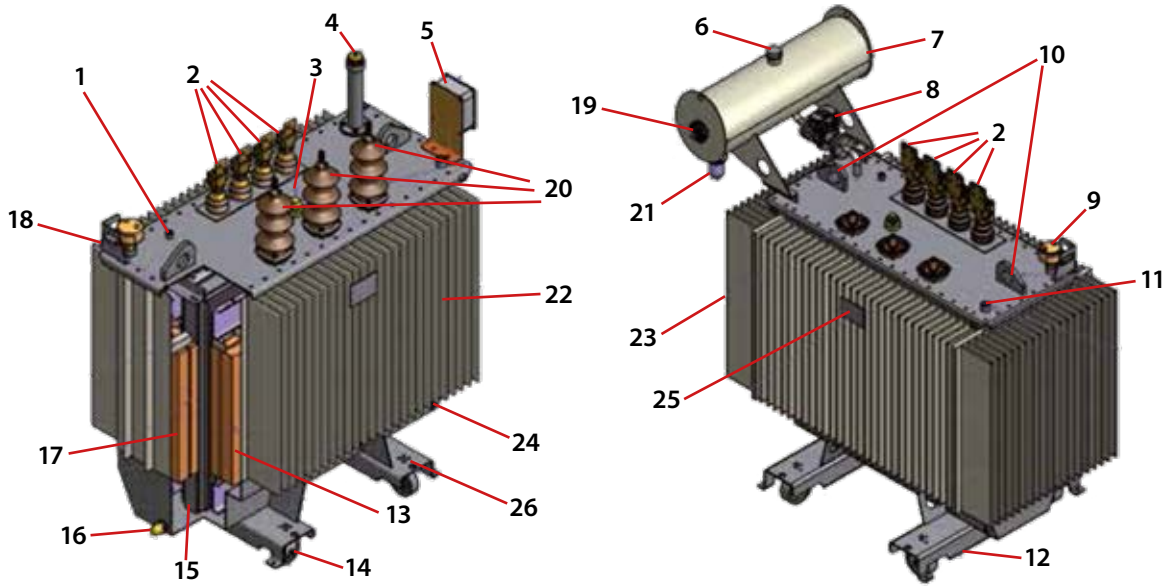
Protected housing with connections on primary or secondary side.



Protected housing with connections on primary and secondary side.



Protected housing with internal rails.




1 Earthing terminals
2 Low Voltage Bushings
3 Off load tap changer
4 Filling pipe with antibrust valve
5 Marshalling Box
6 Filling tap*
7 Conservator*
8 Buchholz relay*
9 Thermometer with two electric contacts (on request)
10 Lifting eyebolts
11 Thermometer pocket
12 Truck
13 Medium Voltage Windings
14 Swivelling rollers
15 Magnetic Core
16 Oil discharge and extraction valve
17 Low Voltage Windings
18 Protection shield (on request)
19 Oil level indicator*
20 Medium Voltage Bushings
21 Silica gel connection*
22 Tank with waves
23 Plug-in connectors (upon request)
24 Earthing point on tank
25 Name plate
26 Movement eyebolts

* Not on hermetically sealed transformers

Datablad_ER3O36_05/21_rev01