

# Technical specification Transformer

SGB Czech Trafo s.r.o.

Type: DTTHZ2N

|                   | HV                                      | LV                                                           |
|-------------------|-----------------------------------------|--------------------------------------------------------------|
| Technical Data    | Rated Capacity AN                       | 250 kVA                                                      |
|                   | Voltage                                 | 22000 V                                                      |
|                   | Vector group                            | D                                                            |
|                   | Tappings                                | +2x2,5%                                                      |
|                   | Tappings                                | -2x2,5%                                                      |
|                   | Winding material                        | Al                                                           |
|                   | Insulation class                        | F                                                            |
|                   | Type of insulation                      | Casted                                                       |
|                   |                                         | Prepreg                                                      |
|                   | Relations impedance (Uk)                | HV – LV                                                      |
| Test level        | Impedance voltage Uk                    | 6 %                                                          |
|                   | Tolerance                               | +/- 10 %                                                     |
|                   | Average temperature rise                | 100 K                                                        |
|                   | Highest voltage of equipment (Um)       | 24 kV                                                        |
| Losses            | Alternating voltage                     | 50 kV                                                        |
|                   | BIL                                     | 125 kV                                                       |
|                   | No load losses                          | 468 W                                                        |
| Technical Data II |                                         | 0 % tolerance<br>Ecodesign Directive 2009/125/EC<br>- Tier 2 |
|                   | Load losses at 120°C                    | 3400 W                                                       |
|                   |                                         | 0 % tolerance                                                |
|                   | Design by norm                          | IEC 60076-11:2018                                            |
|                   | Number of phases                        | 3                                                            |
|                   | Frequency                               | 50 Hz                                                        |
|                   | LWA/LPA from 1 m                        | 56 / 43 dB(A)                                                |
|                   | Protection degree Transformer           | IP00                                                         |
|                   | Hardly flammable self-extinguishing     | Yes                                                          |
|                   | Surge voltage - / short circuit proofed | Yes                                                          |
|                   | Short circuit duration                  | 2 s                                                          |
|                   |                                         | Short-circuit power                                          |
|                   |                                         | 500 MVA                                                      |
|                   | Fire-/Climatic-/ Environment class      | F1/C2/E2                                                     |
|                   | Ambient temperature min/max             | -25/40°C                                                     |
|                   | Max. Installation altitude              | 1000 m                                                       |

## Transformer

Weight: 1150 kg

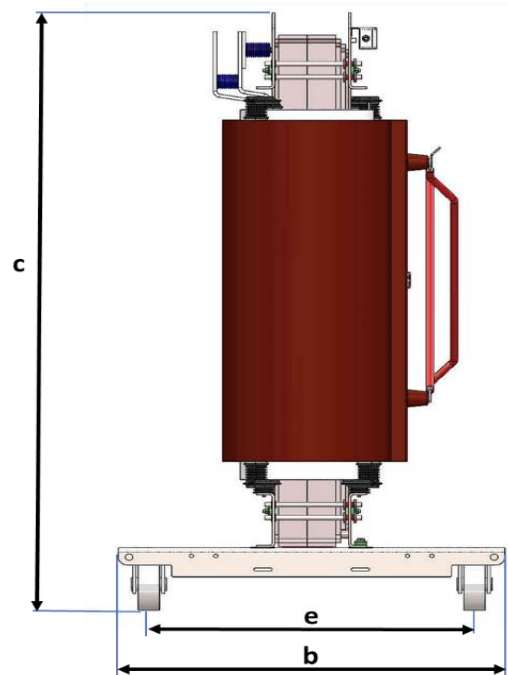
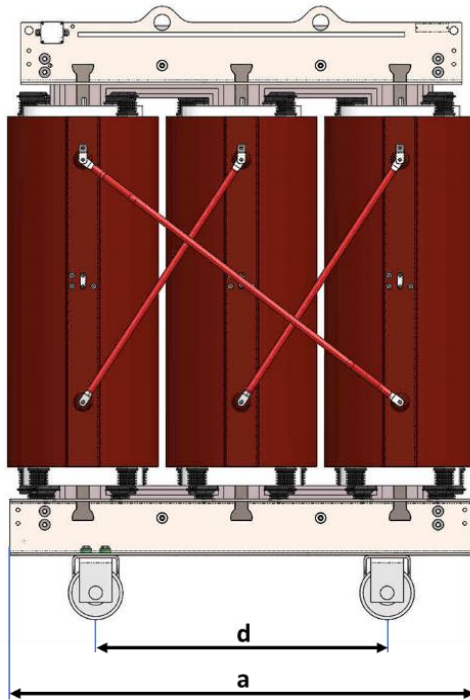
a 1290 mm

b 860 mm

c 1450 mm

d 670 mm

e 670 mm



### Routine testing IEC 60076-11:2018 each transformer:

- Winding resistance
- Voltage ratio and phase displacement
- Impedance of the load and losses
- No load losses and no-load current
- Separate Source AC withstand voltage test
- Induced AC withstand voltage test
- Insulation resistance
- Partial discharge test