

# Technical specification Transformer

SGB Czech Trafo s.r.o.

Type: DTTHZ2N

|                   | HV                                      | LV                |
|-------------------|-----------------------------------------|-------------------|
| Technical Data    | Rated Capacity AN                       | 1000 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            |
| Losses            | No load losses                          | 1395 W            |
|                   | Load losses at 120°C                    | 9000 W            |
| Technical Data II | Design by norm                          | IEC 60076-11:2018 |
|                   | Number of phases                        | 3                 |
|                   | Frequency                               | 50 Hz             |
|                   | LWA/LPA from 1 m                        | 64 / 51 dB(A)     |
|                   | Protection degree Transformer           | IP00              |
|                   | Hardly flammable self-extinguishing     | Yes               |
|                   | Surge voltage - / short circuit proofed | Yes               |
|                   | Short circuit duration                  | 2 s               |
|                   | Fire-/Climatic-/ Environment class      | F1/C2/E2          |
|                   | Ambient temperature min/max             | -25/40°C          |
| Technical Data II | Max. Installation altitude              | 1000 m            |
|                   |                                         |                   |

## Transformer

Weight: 2900 kg

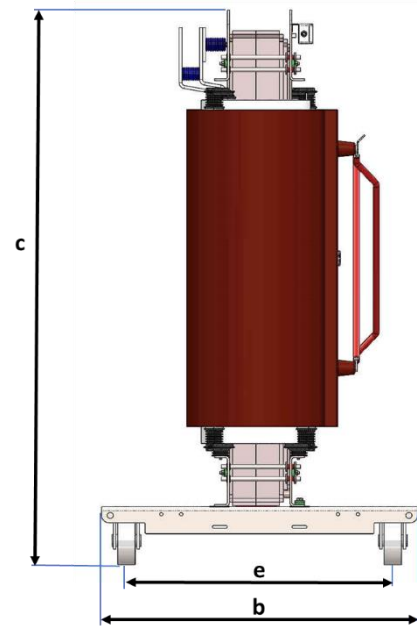
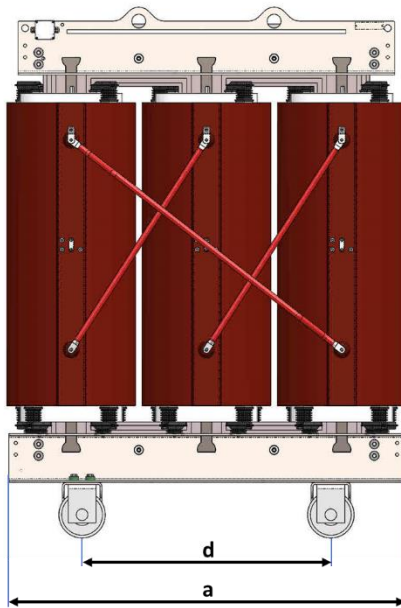
a 1620 mm

b 1000 mm

c 1850 mm

d 820 mm

e 820 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