

Technical specification Transformer

SGB Czech Trafo s.r.o.

Type: DTTHZ2N

	HV	LV
Technical Data	Rated Capacity AN	1600 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	1980 W
	Load losses at 120°C	13000 W
Technical Data II		0 % tolerance Ecodesign Directive 2009/125/EC - Tier 2
	Design by norm	IEC 60076-11:2018
	Number of phases	3
	Frequency	50 Hz
	LWA/LPA from 1 m	67 / 54 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
Technical Data II		500 MVA
	Fire-Climatic-/ /Environment class	F1/C2/E2
	Ambient temperature min/max	-25/40°C
	Max. Installation altitude	1000 m

Transformer

Weight: 4500 kg

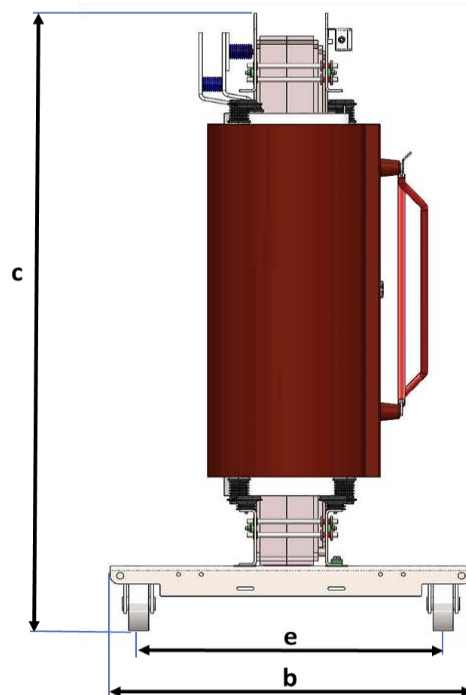
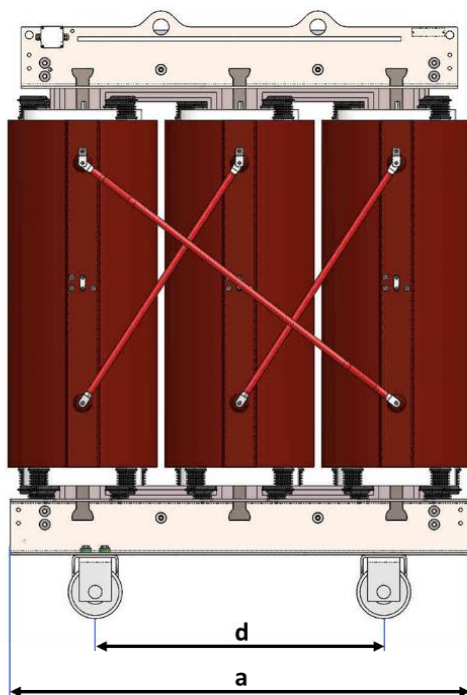
a 1760 mm

b 1020 mm

c 2250 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