

Technical specification Transformer

SGB Czech Trafo s.r.o.

Type: DTTHZ2N

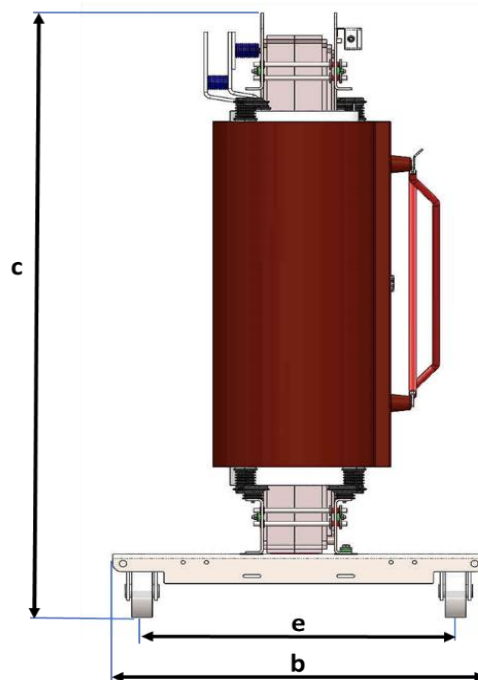
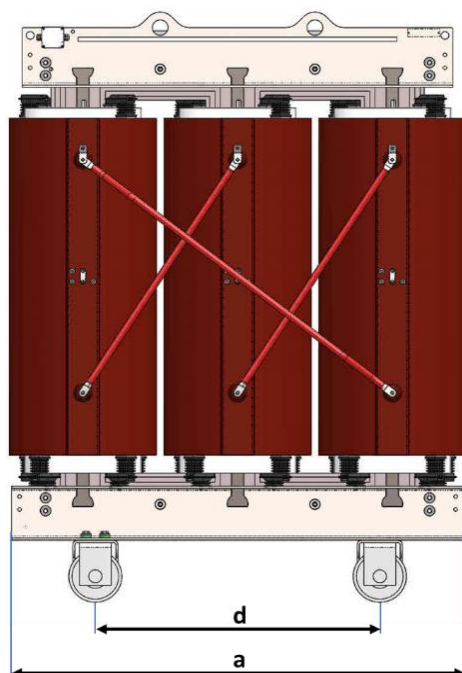
	HV	LV	
Technical Data	Rated Capacity AN	500 kVA	500 kVA
	Voltage	22000 V	420 V
	Vector group	D	yn11
	Tappings	+2x2,5%	
	Tappings	-2x2,5%	
	Winding material	Al	Al
	Insulation class	F	F
	Type of insulation	Casted	Prepreg
	Relations impedance (Uk)		HV – LV
	Impedance voltage Uk		6 %
Test level	Tolerance	+/- 10 %	
	Average temperature rise	100 K	100 K
	Highest voltage of equipment (Um)	24 kV	1,1 kV
	Alternating voltage	50 kV	3 kV
Losses	BIL	125 kV	0 kV
	No load losses	810 W	0 % tolerance Ecodesign Directive 2009/125/EC - Tier 2
Technical Data II	Load losses at 120°C	5630 W	0 % tolerance
	Design by norm	IEC 60076-11:2018	
	Number of phases	3	
	Frequency	50 Hz	
	LWA/LPA from 1 m	59 / 46 dB(A)	0 dB(A) tolerance
	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: 2000 kg
a 1420 mm

b 880 mm
c 1650 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