

Technical specification Transformer

SGB Czech Trafo s.r.o.

Type: DTTHZ2N

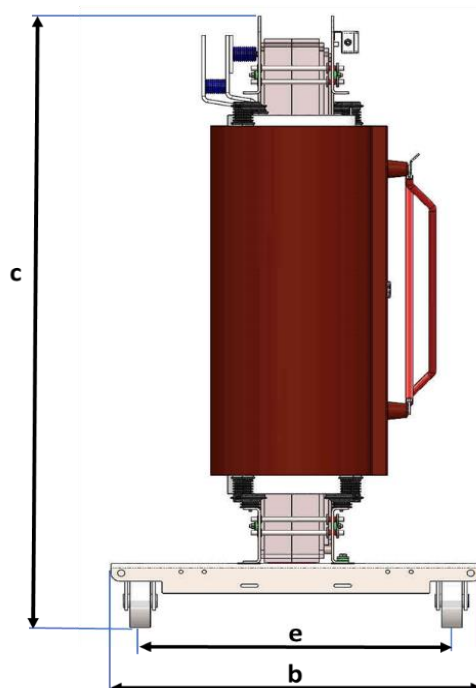
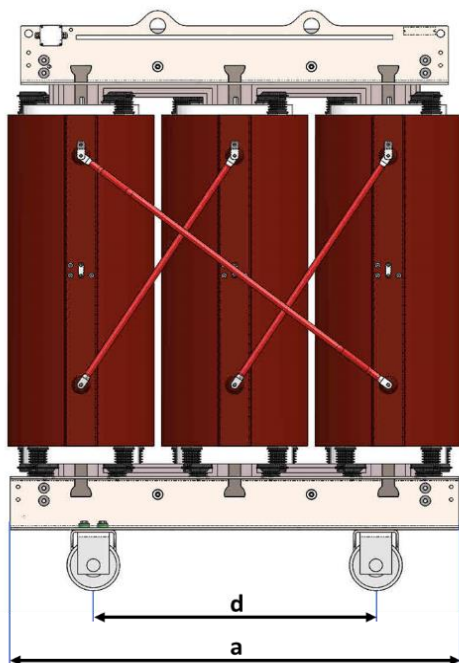
	HV	LV
Technical Data	Rated Capacity AN	2500 kVA
	Voltage	22000 V
	Vector group	D
	Tappings	+2x2,5%
	Tappings	-2x2,5%
	Winding material	Al
	Insulation class	F
	Type of insulation	Casted
		Prepreg
	Relations impedance (Uk)	HV – LV
Test level	Impedance voltage Uk	6 %
	Tolerance	+/- 10 %
	Average temperature rise	100 K
	Highest voltage of equipment (Um)	24 kV
Losses	Alternating voltage	50 kV
	BIL	125 kV
	No load losses	2790 W
Technical Data II		0 % tolerance Ecodesign Directive 2009/125/EC - Tier 2
	Load losses at 120°C	19000 W
		0 % tolerance
	Design by norm	IEC 60076-11:2018
	Number of phases	3
	Frequency	50 Hz
	LWA/LPA from 1 m	70 / 57 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: 7000 kg
a 2040 mm

b 1270 mm
c 2500 mm

d 1070 mm
e 1070 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