

TEKSTINIS PRIEDAS NR. 6. TRANSFORMATORIAUS TECHNINIAI DUOMENYS



Technical specification



Item number 011 to quote 18-01329470

2019-07-08 TJK

Rev A

Characteristic

Design		Three-phase oil-immersed transformer
Type		KTPU/T 123 NM 16000
Rated Power	[kVA]	16000
Cooling		ONAN/ONAF (60/100 %)
Primary Voltage	[kV]	115
Primary Tappings		$\pm 9 \times 1.778\%$
Primary Winding Conductor Material		Al (Reg Cu)
Primary Insulation Level (phases-neutral)	[kV]	U _m 123 LI 550 AC 230 - LI 250 AC 95
Primary Bushing Insulation Level	[kV]	U _m 123 LI 550 AC 230 - LI 250 AC 95
Secondary Voltage	[kV]	27.5
Secondary Winding Conductor Material		Cu
Secondary Insulation Level	[kV]	U _m 36 LI 170 AC 70
Secondary Bushing Insulation Level	[kV]	U _m 36 LI 170 AC 70
Frequency	[Hz]	50
Vector Group		YNd11
Max. Temperature Rise (Oil/Winding)	[K/K]	60/65 (continuous operation)
Maximum Ambient Temperature	[°C]	40
Altitude	[m]	1000

Guaranteed Values with Tolerances According to Standards

Standards		IEC60076
Impedance, U _k (tapping: \pm)	[%]	10.5 @ 16000 kVA
No Load Losses, P ₀	[kW]	7.7
Load Losses, P _k @ 75 °C (tapping: \pm)	[kW]	105.0 @ 16000 kVA
Sound Pressure Level, L _{IA} (Sound Intensity)	[dB(A)]	Max. 70 (at U _n at 1 m)

Preliminary Values

Length	[mm]	
Width	[mm]	
Height	[mm]	
Active Parts	[kg]	15100
Heaviest Transport Part	[kg]	29000
Weight of Oil	[kg]	9000
Total Weight	[kg]	31500
Outline Drawing		

Transformer is compliant with the Ecodesign requirements of EU No 548/2014

PEI	[%]	99.645 at power 4.332 MVA
Cooling Losses	[kW]	0 at no-load operation
Winding Conductor Material		Al, Cu
Core Material		Cold-rolled grain-oriented steel

Type of Design

Tank Construction		Conservator type vacuum proof tank with bolted cover
Insulation Liquid		Nynäs Nytro 10XN (IEC60296 Ed. 4 inhibited)
Surface Treatment		Painted tank RAL 7032 pebble grey, 240 μ m according to standard EN ISO 12944 environmental class C4, hot dip galvanized and painted radiators, doc no. 1LF1193-en