TECHNICAL DATA

1.	Manufacturer		KKM Power d.o.o, Serbia
2.	Transformer type		Oil-immersed, hermetically sealed
3.	Product kind		Earthing transformer(with auxiliary winding) with arc-suppression coil within the same tank
4.	Standard		IEC 60076 (group of standards)
5.	Product name		**CNT 50-10,5-50**
TRANSFORMER DATA			
6.	Rated power	[kVA]	50
7.	Number of phases		3
8.	Rated frequency	[Hz]	50
9.	Highest voltage of equipement	[kV]	12
10.	Insulation level	[kV]	LI 75 AC 28 / LI0 AC5
11.	Rated primary voltage	[kV]	10.5
12.	Regulation on primary side	Yes/No	Yes
13.	Regulation range	[%]	±2x2.5
14.	Rated secondary voltage	[kV]	0.4
15.	Connection group		ZNyn11+I
16.	No-load losses	[W]	≤560
17.	Load losses at 75°C	[W]	≤400
18.	Sound power level	dB(A)	≤52
PETERSEN COIL DATA			
19.	Highest voltage of equipement	[kV]	12
20.	Insulation level	[kV]	LI 75 AC 28
21.	Rated voltage	[kV]	10.5/√3
22.	Losses at 75°C	[W]	≤2500

23.

Tap position	Rated Power [kVAr]	Rated Current [A]	Rated Impedance [Ω]
1	303	50	121
2	258	42.5	142
3	212	35	173
4	167	27.5	220
5	122	20	303

CONNECTION OF TRANSFORMER AND PETERSEN COIL DATA			
24.	Rated fault duration	[h]	≤ 24
25.	R_0/X_0 ratio at 75°C	[%]	< 2.0 (for all taps)
26.	Non-linearity up to 1.1xU_r	[%]	< 2.0
27.	Type of cooling		ONAN
28.	Instalation altitude	[m]	<1000
29.	Winding material	Cu/Al	Aluminum (all windings of transformer and arc-suppression coil are with aluminum conductors)
30.	Maximum temperature of ambient minimum/maximum	[°C]	-35/40
31.	Maximum temperature rise of winding	[K]	65
32.	Maximum temperature rise of oil	[K]	60
33.	Thermal class of insulation		A
	Instalation conditions		Indoor / Outdoor
34.	Surface treatment and corrosion protection		C3H Primer (epoxy or polyurethane)-1 layerthickness 80-160µm, Paint (epoxy or polyurethane)-2 layers, total thickness >180µm
35.	Approximate length of product	[mm]	1250
36.	Approximate width of product	[mm]	1200
37.	Approximate height of product	[mm]	1480
38.	Mass of oil in product	[kg]	595
39.	Total mass of product	[kg]	1980
ACCESSORIES			
40.	HV transformer terminals	Porcelain bushing, EN 50180 12kV; 250A	
41.	HV transformer neutral terminal	Porcelain bushing, EN 50180 12kV; 250A	
42.	HV arc-suppresion coil terminal	Porcelain bushing, EN 50180 12kV; 250A	
43.	LV terminals	Porcelain bushing, EN 50386 1kV; 250A	
44.	Transformer tap changer	Standard, offload	
45.	Reactor tap changer	Standard, offload	
46.	Thermometer	with 2 contacts	
47.	Oil level indicator	Standard	
48.	Safety valve	With contacts	
49.	Oil drain valve	Standard	
50.	Wheels	Bi-directional	