



1. H.V. DIN-Bushings 24kV, 250A
2. H.V. neutral Plug-in bushing 24kV, 250A
3. L.V. DIN-Bushings 1kV, 250A
4. Reactor tap changer
5. Earthing terminal
6. Oil drain valve
7. Lifting lugs
8. Filling tube
9. Diagram plate
10. Rated plate
11. Neutral to earthing terminal

kVA	A	B	C	e	k		n		Mass(kg)		CNT 100-20,5
					H.V.	L.V.	H.V.	L.V.	Oil	Total	
100	945	925	1380	520	260	100	385	135	360	1400	



Three-phase oil-immersed hermetically sealed
distribution transformer with Petersen coil
100kVA, 20.5/0.41kV/kV, ZNzn0

TECHNICAL DATA

1.	Manufacturer		KKMPower d.o.o, Serbia	
2.	Transformer type		Oil-immersed, hermetically sealed	
3.	Product kind		Distribution transformer with Petersen coil within the same tank	
4.	Standard		IEC 60076 (Group of standards)	
5.	Product name		CNT 100-20,5	
TRANSFORMER DATA				
6.	Rated power	[kVA]	100	
7.	Number of phases		3	
8.	Rated frequency	[Hz]	50	
9.	Highest voltage of equipement	[kV]	24	
10.	Insulation level	[kV]	LI 125 AC 50/LI 0 AC 10	
11.	Rated primary voltage	[kV]	20.5	
12.	Regulation on primary side	Yes/No	No	
13.	Rated secondary voltage	[kV]	0.41	
14.	Connection group		ZNzn0	
15.	No-load losses	[W]	210	
16.	Load losses at 75°C	[W]	1950	
17.	Impedance voltage at 75°C	[%]	4	
PETERSEN COIL DATA				
18.	Highest voltage of equipement	[kV]	24	
19.	Insulation level	[kV]	LI 125 AC 50	
20.	Rated voltage	[kV]	20.5/ $\sqrt{3}$	
21.	Tap position	Rated Power [kVAr]	Rated Current [A]	Rated Impedance [Ω]
	1	60	5	2367
	2	89	7.5	1578
	3	119	10	1183
	4	148	12.5	947
	5	178	15	789



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COMBINATION OF TRANSFORMER AND PETERSEN COIL DATA

22.	Rated fault duration	[h]	≤ 2
23.	R_0/X_0 ratio at 75°C (at tap position 3 of reactor)	[%]	< 2.5
24.	Non-linearity up to $1.1xU_r$	[%]	< 2.0
25.	Type of cooling		ONAN
26.	Installation altitude	[m]	< 1000
27.	Winding material	Cu/Al	Copper
28.	Maximum temperature of ambient	[°C]	40
29.	Maximum temperature rise of winding	[K]	65
30.	Maximum temperature rise of oil	[K]	60
31.	Thermal class of insulation		A
32.	Installation conditions		Outdoor
33.	Approximate length of product	[mm]	945
34.	Approximate width of product	[mm]	925
35.	Approximate height of product	[mm]	1380
36.	Mass of oil in product	[kg]	360
37.	Total mass of product	[kg]	1400
ACCESSORIES			
38.	HV porcelain bushing		DIN 42531 24kV; 250A
39.	HV plug-in neutral bushing		EN 50180 24kV; 250A
40.	LV porcelain bushing		DIN 42530 1kV; 250A
41.	Reactor tap changer		Standard, offload
42.	Oil drain valve		Standard