



Three-phase oil-immersed hermetically sealed
distribution transformer with Petersen coil
100kVA, 11/0.42kV/kV, ZNzn0

TECHNICAL DATA

1.	Manufacturer		KKM Power 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 100-11-10
TRANSFORMER DATA			
6.	Rated power	[kVA]	100
7.	Number of phases		3
8.	Rated frequency	[Hz]	50
9.	Highest voltage of equipement	[kV]	12
10.	Insulation level	[kV]	LI75 AC28/LI0 AC10
11.	Rated primary voltage	[kV]	11
12.	Regulation on primary side	Yes/No	No
13.	Rated secondary voltage	[kV]	0.42
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]	12
19.	Insulation level	[kV]	LI75 AC28
20.	Rated voltage	[kV]	11/√3



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CONNECTION OF TRANSFORMER AND PETERSEN COIL DATA			
21.	Rated short-time neutral current	[A]	10
22.	Rated short-time neutral current duration	[h]	≤ 2
23.	Rated zero-sequence impedance	[Ω]	635
24.	R_0/X_0 ratio at 75°C	[%]	< 2.5
25.	Non-linearity up to $1.1xU_r$	[%]	< 2.0
26.	Type of cooling		ONAN
27.	Installation altitude	[m]	< 1000
28.	Winding material	Cu/Al	Cu
29.	Maximum temperature of ambient	[°C]	40
30.	Maximum temperature rise of winding	[K]	65
31.	Maximum temperature rise of oil	[K]	60
32.	Thermal class of insulation		A
33.	Installation conditions		Outdoor
34.	Approximate length of product	[mm]	1040
35.	Approximate width of product	[mm]	890
36.	Approximate height of product	[mm]	1140
37.	Mass of oil in product	[kg]	335
38.	Total mass of product	[kg]	1200
ACCESSORIES			
39.	HV plug-in bushing		EN 50180 (24kV, 250A)
40.	HV neutral plug-in bushing		EN 50180 (24kV, 250A)
41.	LV porcelain bushing		DIN 42530 (1kV, 250A)
42.	Oil drain valve		Standard