



Three phase oil-immersed hermetically sealed distribution transformer and shunt reactor with Peterson coil capability  
100KVA + 178kVAr, 20.5/0.41kV + 20,5kV, Dyn11+YN

## TECHNICAL DATA

1	Manufacturer		KKM Power d.o.o, Serbia				
2	Product type		Oil-immersed hermetically sealed				
3	Product kind		Distribution transformer and shunt reactor with Peterson coil capability within the same tank				
4	Standard		IEC 60076-6				
5	Product name		SHR-T 8/100 -20,5				
<b>Transformer data</b>							
6	Rated power	[kVA]	100				
7	Number of phases		3				
8	Rated frequency	[Hz]	50				
9	Highest voltage of equipment	[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		Dyn11				
15	Short circuit impedance 75°C	[%]	4				
<b>Shunt reactor data</b>							
16	Type of shunt reactor		A bank of three single phase reactors coupled in YN vector group				
17	Number of phases		3				
18	Rated frequency	[Hz]	50				
19	Highest voltage of equipment	[kV]	24				
20	Insulation level	[kV]	LI 125 AC 50				
21	Rated voltage	[kV]	20.5/√3				
22	Maximum operating voltage	[kV]	20.5				
23	Tap changer position		1	2	3	4	5
	Rated Power	[kVAr]	59	89	118	148	178
	Rated Current	[A]	1.67	2.5	3.33	4.15	5
	Rated fault current	[A]	5	7.5	10	12.5	15
	Rated reactance	[Ω/phase]	7088	4735	3555	2852	2367
	Zero-sequence reactance	[Ω/phase]	7088	4735	3555	2852	2367
24	Rated fault duration	[h]	2				
25	R <sub>0</sub> /X <sub>0</sub> ratio at 75°C	[%]	< 1.25				

<b>Temperature rises, conditions of use and installation</b>			
26	Total losses at 75 °C (at rated transformer load and tap position 5 of reactor 15A fault current)	[W]	4500
27	Type of cooling		ONAN
28	Installation altitude	[m]	<1000
29	Maximum temperature of ambient	[°C]	40
30	Maximum temperature rise of winding	[°C]	65
31	Maximum temperature rise of oil	[°C]	60
32	Thermal class of insulation		A
33	Installation conditions		Outdoor
<b>Approximate dimensions and masses</b>			
34	Approximate length of product	[mm]	1410
35	Approximate width of product	[mm]	990
36	Approximate height of product	[mm]	1310
37	Mass of oil in product	[kg]	490
38	Total mass of product	[kg]	1970
<b>Accessories</b>			
1	HV Bushing A	DIN Bushing 42531	24 kV; 250A
2	HV Bushing B	Plug in Bushing	24 kV; 250A
3	LV Bushing A	DIN Bushing 42530	1 kV; 250A
4	Reactor tap changer	Standard	
5	Oil Drain valve	Standard	
6	Oil level indicator	Standard, vertical for hermetically sealed tanks	