



Three-phase oil-immersed hermetically sealed
shunt reactor
59-178kVAr, 20.5kV, YN

TECHNICAL DATA

1.	Manufacturer		KKM Power d.o.o, Serbia				
2.	Reactor type		Oil-immersed, hermetically sealed				
3.	Reactor kind		Shunt reactor. A bank of three separate single-phase reactors, mounted in the same tank and coupled in YN vector group, able to sustain earth-fault.				
4.	Standard		IEC 60076-6 (Clause 7)				
5.	Reactor name		SHR 8-20,5				
6.	Number of phases		3				
7.	Rated frequency	[Hz]	50				
8.	Highest voltage of equipment	[kV]	24				
9.	Insulation level	[kV]	LI 125/AC 50				
10.	Rated voltage	[kV]	20.5				
11.	Winding connection		YN				
Tap position			1	2	3	4	5
12.	Rated power	[kVAr]	59	89	118	147	178
13.	Rated current	[A]	1.67	2.5	3.33	4.17	5
14.	Zero-sequence impedance	[Ω/phase]	7088	4735	3555	2852	2367
15.	Rated fault phase current	[A]	5	7.5	10	12.5	15
16.	Fault duration	[h]	2				
17.	Winding material	Cu/Al	Copper				
18.	Tap changer	Yes/No	Yes, with five taps				
19.	Total losses at 75°C	[W]	2520 (maximum, at tap 5 active)				
20.	R/X ratio at 75°C	[%]	<1.25 (for each tap)				
21.	Sound power level	[dB(A)]	<61				
22.	Type of cooling		ONAN				
23.	Installation altitude	[m]	<1000				
24.	Maximum temperature of ambient	[°C]	40				
25.	Maximum temperature rise of winding	[K]	65				
26.	Maximum temperature rise of oil	[K]	60				
27.	Thermal class of insulation		A				

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28.	Instalation conditions		Outdoor
29.	Approximate length of reactor	[mm]	885
30.	Approximate width of reactor	[mm]	905
31.	Approximate height of reactor	[mm]	1300
32.	Mass of oil in reactor	[kg]	230
33.	Total mass of reactor	[kg]	1220