



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

Offer No. **P17-128**
Drawing No. **MS-1643**
Version **1.0**
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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 reactor, 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.	SNRO		57 090 00				
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				
11.	Rated voltage	[kV]	20.5				
12.	Winding connection		YN				
Tap position			1	2	3	4	5
13.	Rated power	[kVAr]	59	89	118	147	178
14.	Rated current	[A]	1.67	2.5	3.33	4.17	5
15.	Zero-sequence impedance	[Ω /phase]	7088	4735	3555	2852	2367
16.	Rated fault phase current	[A]	5	7.5	10	12.5	15
17.	Fault duration	[h]	2				
18.	Winding material	Cu/Al	Aluminium				
19.	Tap changer	Yes/No	Yes, with five taps				
20.	Total losses at 75°C	[W]	2520(maximum, at tap 5 active)				
21.	R/X ratio at 75°C	[%]	<1.25(for each tap)				
22.	Sound power level	[dB(A)]	<56				
23.	Type of cooling		ONAN				
24.	Instalation altitude	[m]	<1000				

25.	Maximum temperature of ambient	[°C]	40
26.	Maximum temperature rise of winding	[K]	65
27.	Maximum temperature rise of oil	[K]	60
28.	Thermal class of insulation		A
29.	Instalation conditions		Indoor/Outdoor
30.	Approximate length of reactor	[mm]	975
31.	Approximate width of reactor	[mm]	958
32.	Approximate height of reactor	[mm]	1410
33.	Mass of oil in reactor	[kg]	440
34.	Total mass of reactor	[kg]	1550

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