



Three-phase hermetically sealed oil-immersed shunt reactor

190kVAr, 22kV, YN

TECHNICAL DATA

1.	Manufacturer		KKM Power d.o.o, Serbia
2.	Reactor type		Oil-immersed, hermetically sealed
3.	Reactor kind		Shunt reactor, with Petersen coil capacity
4.	Standard		EN 60076-6, EN 60076-series
5.	Reactor name		SHR 8-22
6.	Number of phases		3
7.	Rated frequency	[Hz]	50
8.	Highest voltage of equipement	[kV]	24
9.	Insulation level	[kV]	LI 125/AC 50
10.	Rated voltage	[kV]	22
11.	Winding connection		YN
12.	Rated power	[kVAr]	190
13.	Rated current	[A]	5
14.	Zero-sequence impedance	[Ω /phase]	2540
15.	Equivalent Petersen-coil capacity, $3xI_0$	[A]	15
16.	Fault duration	[min]	≤ 120
17.	Total losses at 75°C	[W]	2460
18.	Zero sequence resistance/reactance ratio $R_{(0)}/X_{(0)}$ at 75°C		<1.3
19.	Zero sequence impedance linearity deviation, in range from 1%-100% (53% corresponds to rated phase voltage)	[%]	Within $\pm 2\%$ of measured rated impedance
20.	Sound power level, without anti-vibration pads	[dB(A)]	<59



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21.	Type of cooling		ONAN
22.	Instalation altitude	[m]	<1000
23.	Minimum/Maximum temperature of ambient	[°C]	-30/40
24.	Maximum temperature rise of winding	[K]	65
25.	Maximum temperature rise of oil	[K]	60
26.	Thermal class of insulation		A
27.	Instalation conditions		Outdoor/Indoor
28.	Surface treatment and corrosion protection		Hot dip galvanizing
29.	Approximate length of reactor	[mm]	918
30.	Approximate width of reactor	[mm]	888
31.	Approximate height of reactor	[mm]	1064
32.	Mass of oil in reactor	[kg]	310 (Nynas Nytro 10XN)
33.	Total mass of reactor	[kg]	1420

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