



Three-phase hermetically sealed oil-immersed
earthing transformer with Petersen coil
22kV, 5-15A/5min, ZN+I

Offer No. **P21-048**
Drawing No. **MS-2130**
Version **1.0**
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TECHNICAL DATA

1.	Manufacturer		KKM Power d.o.o, Serbia				
2.	Transformer type		Oil-immersed, hermetically sealed				
3.	Product kind		Earthing transformer(Neutral coupler), with Petersen coil				
4.	Standard		IEC 60076 (Group of standards)				
5.	Product name		SUBcomp 22/5-15				
EARTHING TRANSFORMER DATA							
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 primary voltage	[kV]	22				
11.	Regulation on primary side	Yes/No	No				
12.	Connection group		ZN				
13.	No-load losses	[W]	250				
PETERSEN COIL DATA							
14.	Highest voltage of equipment	[kV]	24				
15.	Insulation level	[kV]	LI 125 AC 50				
16.	Rated voltage	[kV]	22/$\sqrt{3}$				
17.	Connection group		I				
18.	Tap position		1	2	3	4	5
19.	Rated fault neutral current	[A]	5	7.5	10	12.5	15
20.	Rated zero-sequence impedance	[Ω]	2540	1694	1270	1016	847
21.	Fault duration	[min]	5				

COMPOUND EARTHING TRANSFORMER AND PETERSEN COIL DATA

1.	R ₀ /X ₀ , at 75 °C (at tap position 3 of reactor)	[%]	≤ 2.5
2.	Non-linearity of zero-sequence impedance up to 1.1*U _{rated}	[%]	≤ 2.0
3.	Type of cooling		ONAN
4.	Installation altitude	[m]	<1000
5.	Winding material	Cu/Al	Aluminium
6.	Maximum temperature of ambient	[°C]	40
7.	Maximum temperature rise of winding	[K]	65
8.	Maximum temperature rise of oil	[K]	60
9.	Thermal class of insulation		A
10.	Installation conditions		Outdoor
Approximate dimensions and masses			
11.	Length of product	[mm]	1100
12.	Width of product	[mm]	1140
13.	Height of product	[mm]	1400
14.	Mass of oil in product	[kg]	500
15.	Total mass of product	[kg]	1450
Accessories			
16.	HV phase plug-in bushing		EN 50180 (24kV, 250A)
17.	HV neutral plug-in bushing		EN 50180 (24kV, 250A)
18.	Oil level indicator		Standard