

Technical Data Sheet

A. Technical Characteristics

1	Type	:	1600 / 20 - 0,41	
2	Rated Power	:	1600	kVA
3	No-load Voltages	:	20 - 0,41	kV
4	Frequency	:	50	Hz
5	Vector Group	:	Dyn11	
6	Voltage Regulation (at HV Side)	:	+2x %2,5 -2 x %2,5	Off-load
7	No-load Losses	:	1,08	kW
8	Load Losses (at 75 °C & Nominal Pos.)	:	12	kW
9	Short-circuit Impedance (at 75 °C & Nominal Pos.)	:	6	%
10	Short Circuit Withstand Duration	:	2	s
11	Duty	:	Continuous	
12	Design Ambient Temperatures (Min./Max.)	:	-25 / 40	°C
13	Temperature Rises (Oil/Winding)	:	60 / 65	K
14	Operational Altitude	:	≤ 1000	m
15	Cooling Type	:	KNAN	
16	Applicable Standard	:	IEC 60076	
17	Winding Material	:	Aluminum	
18	Type of Insulating Liquid	Mineral	NYNAS NYTRO 4000Xor equivalent	
19	Type of Oil Preservation System	:	Hermetical Sealed Type	
20	Type of Tank Construction	:	Corrugated Wall	
21	Surface Protection	:	Standard Paint, RAL 7033	
22	Underbase Construction	:	With Wheels	

Note: 1.No-load losses are guaranteed at 1.0Un and short-circuit losses are guaranteed at nominal tap and rated power.

2.All tolerances are according to IEC 60076.

B. Insulation Levels

	Um (kV)		Rated Lightning Impulse Withstand Voltage (kV, 1.2μs)	Rated Power Frequency Withstand Voltage (kV, 1min 50Hz)
1	HV	24	125	50
2	LV	1,1	-	3
3		-	-	-
4				

C. Bushings/Terminals

	Type	Termination
1	HV	20NF 250A
2	LV & LV-N	1N 3150A
3		
4	LV-N	-

Note:

D. Dimensions

	Total (mm)	Transport (mm)
1	Length	1750
2	Width	1210
3	Height	2040
4	Roller Space	820
5	Rail Space	-

E. Weights

1	Total Weight	:	4250	kg
2	Oil Weight	:	865	kg
3	Active Part	:	2670	kg
4	Transport Weight	:	4250	kg

Note: All Weights and dimensions are approximate values.

Accessories & Protection Devices :

Hermetic relay(DMCR), Pressure valve
Oil filling valve, Oil drain and sampling valve,