

TX station: 3xBkv3

Gain solid integration : enabled

Site Name: Labelitaly

General data of Antenna System

TX station	3xBkv3
Site Name	Labelitaly
System of coordinates	Geographic
Longitude	00°00'00.000"
Latitude	00°00'00.000"
Ground level a.s.l. (m)	100.0
Antenna system height (m)	50.0
Transmitter power(Watt)	1000.000
Carrier wave frequency (MHz)	200.000
Antenna system central frequency (MHz)	200.000
Antenna base diagrams type 1	LABEL ITALY-BKV_3 YAGI 3 ELEM. VHF WB
Antenna base diagrams type 2	-
Polarization (H/V/C/X)	V
Transmitting cable attenuation (dB)	0.0
Additional attenuations(dB)	0.0
Base diagrams sectors (T = All, F = Front)	T
Velocity factor of cables to Antennas (0÷1)	0.88
Coordinate System(C = cartesian, P = polar)	P
Mast side / diameter(cm):	10.0
Mast cross section (T/Q/C)	C
Structure rotation w.r.t. North (°)	0.0
Mast rotation w.r.t. North (°)	0.0

Information about antennas used in the System

	<i>Antenna type 1</i>
Manufacturer	LABEL ITALY
Antenna model	BKV_3 YAGI 3 ELEM.
Band start(MHz)	174
Band stop(MHz)	225
diagrams Frequency(MHz)	200
Polariz (H,V,C,X)	V
Vertical dist (cm)	135
Height (cm)	88
Width (cm)	6
Thickness (cm)	79
Weight (Kg)	5
Maximum power (KW)	2
Gain (dBd)	5
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	20
R.C.Phase (°)	0

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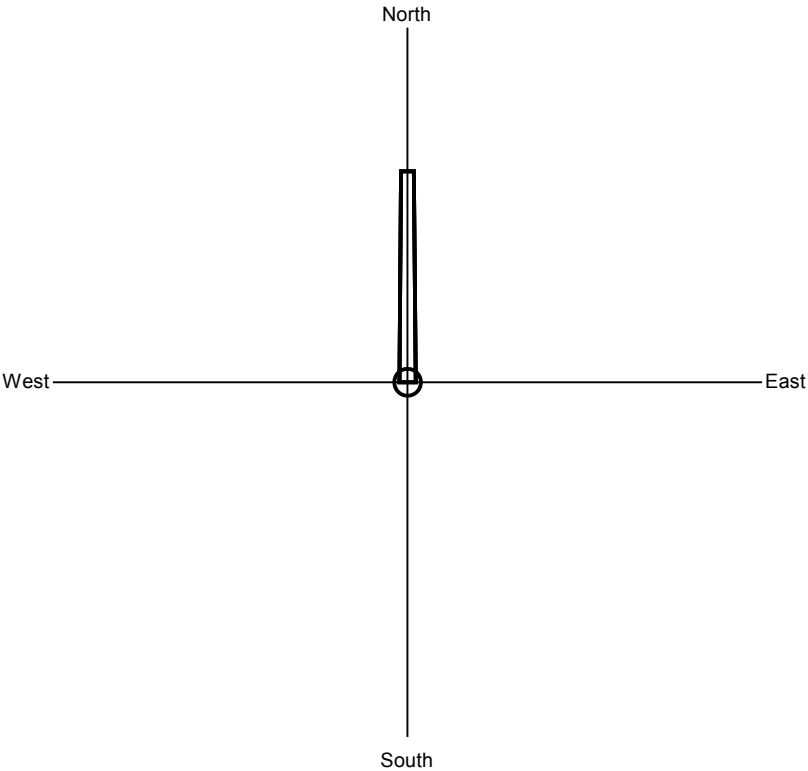
Geometr. and electrical data of Antenna System

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°/N)	<i>Phase</i> (°)	<i>V dist.</i> (m)	<i>Scr-d</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	33.333	0	0	0 +0.0	1.30	0.0	0.0	1	1	0.0	0.0
2	33.333	0	0	0 +0.0	0.00	0.0	0.0	1	1	0.0	0.0
3	33.333	0	0	0 +0.0	-1.30	0.0	0.0	1	1	0.0	0.0

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Plan of antenna system



Side of antenna system



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Antennas arrays data

A. Antennas array azimuth (°/N)	0
B. Number of antennas	3
C. Nominal power supply (W)	1000.00
D. Losses (addit. + cables) (dB)	0.0
E. Effective power supply (W)	1000.00
F. Theor. maximum gain (dBd)	9.07
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	9.07
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	9.07
K. Effec. max gain (times)	8.07
L. Effec. max power [E * K] (KW)	8.0674
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	0

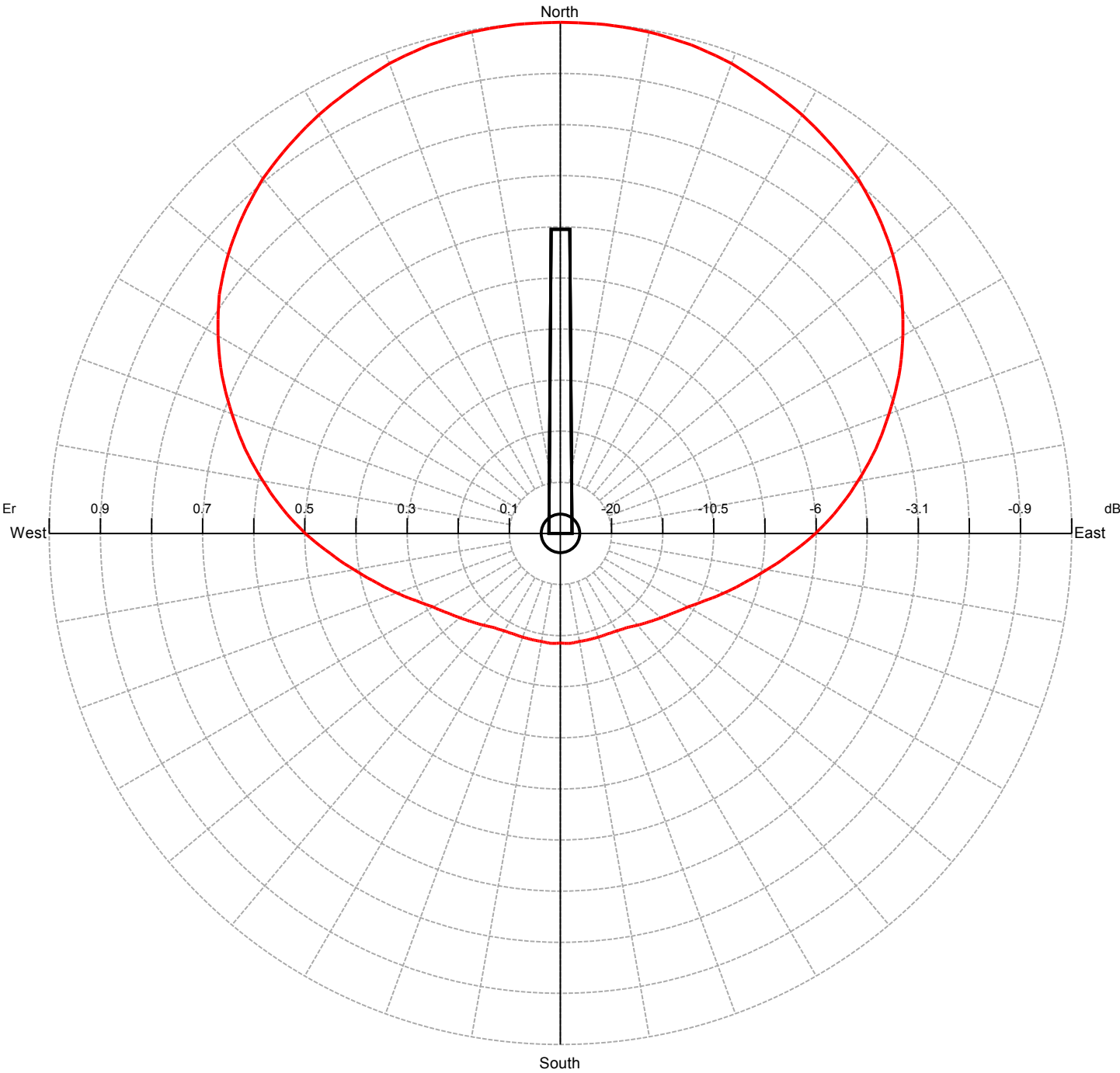
Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	9.1	90	3.0	180	-4.3	270	3.0
10	9.0	100	1.3	190	-4.3	280	4.5
20	8.9	110	-0.3	200	-4.2	290	5.8
30	8.6	120	-1.8	210	-4.1	300	6.8
40	8.2	130	-2.7	220	-3.5	310	7.6
50	7.6	140	-3.5	230	-2.7	320	8.2
60	6.8	150	-4.1	240	-1.8	330	8.6
70	5.8	160	-4.2	250	-0.3	340	8.9
80	4.5	170	-4.3	260	1.3	350	9.0

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Horizontal diagram at 0.0° depres. (Total Antenna)

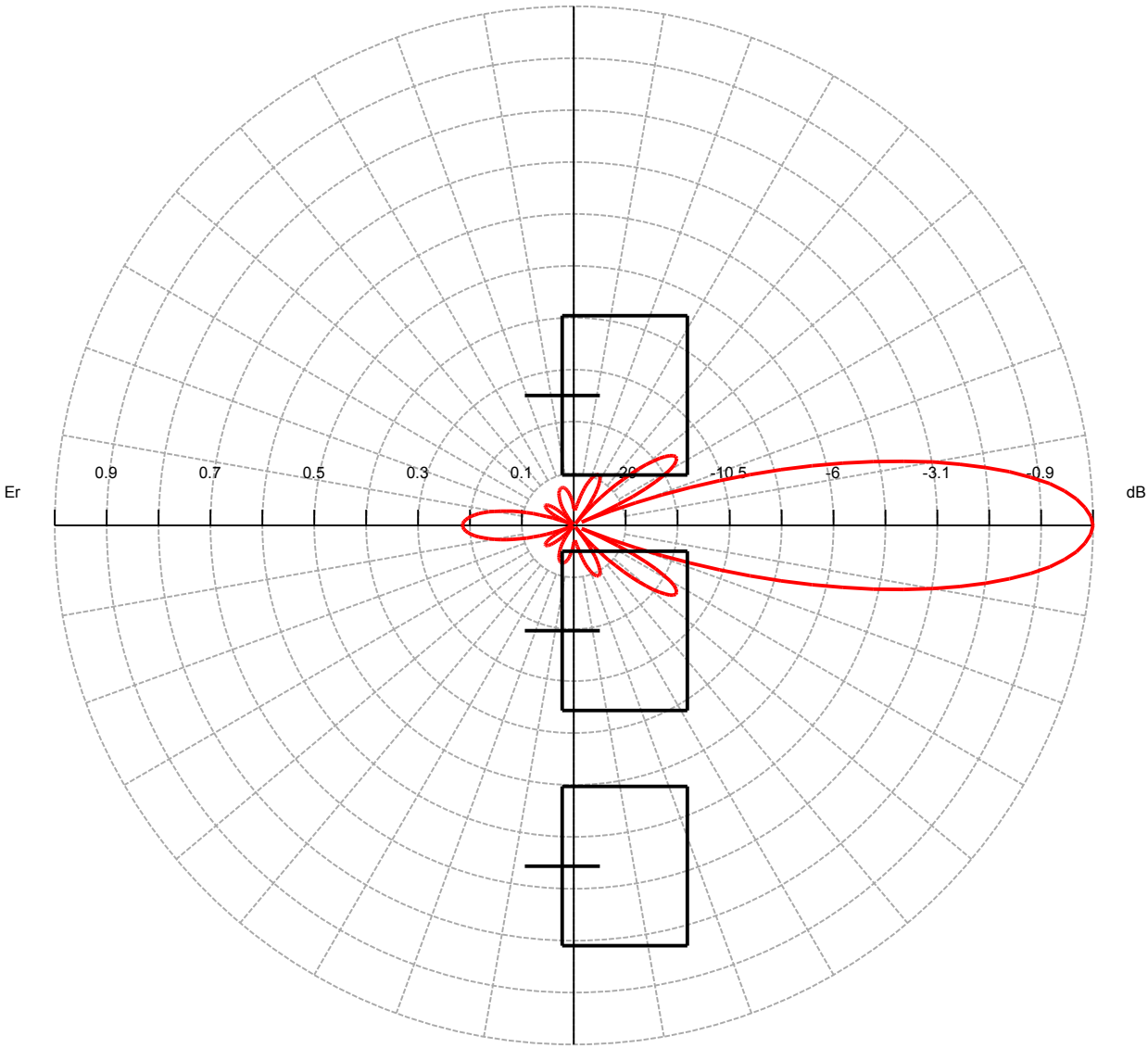


0.0° depres. (Total Antenna), Gain (dBd): 9.07 ERP T.Max(KW): 8.0674 ERP E.Max(KW): 8.0674

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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 9.07

ERP T.Max(KW): 8.0674 ERP E.Max(KW): 8.0674