



BEARING ITALIA S.P.A

500 mm x 830 mm x 264 mm NTN
231/500BL1K Double row spherical roller bearings

Bearing No. 231/500BL1K

d	500 mm
D	830 mm
B	264 mm
d2	607 mm
D1	723 mm
rs min	7.5 mm
Number of lubrication holes	8
b	33 mm
k	20 mm
Associated sleeve reference	H31/500
e	0.32
Y1	2.12
Y2	3.16
Y0	2.08
Radial clearance class	CN
Dynamic load, C	6,950 kN
Static load, C0	13,700 kN
Fatigue limit load, Cu	999 kN
Nref	350 rpm
Nlim	620 rpm
Min operating temperature, Tmin	-40 ° C
Max operating temperature, Tmax	120 ° C
Characteristic cage frequency, FTF	0.44 Hz

231/500BL1K Bearing 2D drawings and 3D CAD models



BEARING ITALIA S.P.A

Characteristic rolling element frequency, BSF	8.07 Hz
Characteristic outer ring frequency, BPF0	9.68 Hz
Characteristic inner ring frequency, BRFI	12.32 Hz
da min	532 mm
db min	527 mm
Ce min	18 mm
Da max	798 mm
ra max	6 mm