

PDF technical sheet

22264BL1KC3

Double row spherical roller bearings

Spherical roller bearing, with central rib on inner ring, 2-part machined cage centred on inner ring, groove and lubrication holes on outer ring, tapered bore 1:12

Product definition	
d	12.5984 "
D	22.8346 "
B	5.9055 "
d2	16.0236 "
D1	19.8228 "
rs min	0.1969 "
Number of lubrication holes	8
b	0.7874 "
k	0.4724 "
Associated sleeve reference	H3164
e	0.26
Y1	2.57
Y2	3.83
Y0	2.51
Radial clearance class	C3
Brand	NTN

Product performance	
Dynamic load, C	3,100 kN
Static load, C0	5,050 kN
Fatigue limit load, Cu	430 kN
Nref	800 RPM
Nlim	1,000 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.94 Hz
Characteristic outer ring frequency, BPF0	8.18 Hz
Characteristic inner ring frequency, BPFI	10.82 Hz

Abutment dimensions

da min	13.3858 "
db min	13.3071 "
Ce min	1.5354 "
Da max	22.0472 "
ra max	0.1575 "

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .