PDF technical sheet
22260BL1KC3

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	11.8110 "
D	21.2598 "
B	5.5118 "
d2	14.9606 "
D1	18.4606 "
rs min	0.1969 "
Number of lubrication holes	8
b	0.7874 "
k	0.4724 "
Associated sleeve reference	H3160
e	0.26
Y1	2.57
Y2	3.83
Y0	2.51
Radial clearance class	C3
Brand	NTN

Product performance	
Dynamic load, C	2,670 kN
Static load, C0	4,350 kN
Fatigue limit load, Cu	363 kN
Nref	900 RPM
Nlim	1,100 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	7.03 Hz
Characteristic outer ring frequency, BPF0	8.19 Hz
Characteristic inner ring frequency, BPFI	10.81 Hz

Abutment dimensions	
da min	12.5984 "
db min	12.5197 "
Ce min	1.2598 "
Da max	20.4724 "
ra max	0.1575 "

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
1	Y0

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