

PDF technical sheet 6322C4



Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, open

Product definition

d	110 mm
D	240 mm
B	50 mm
rs min	3 mm
Radial clearance class	C4
Mass	9.54 kg
Brand	NTN



Product performance

Dynamic load, C	205 kN
Static load, C0	179 kN
Fatigue limit load, Cu	6.10 kN
f0	13.1
Nlim (oil)	3,400 Tr/min
Nlim (grease)	2,900 Tr/min
Min operating temperature, Tmin	-60 °C
Characteristic cage frequency, FTF	0.38 Hz
Characteristic rolling element frequency, BSF	4.04 Hz
Characteristic outer ring frequency, BPF0	3.07 Hz
Characteristic inner ring frequency, BPF1	4.94 Hz



Abutment dimensions

da min	123 mm
Da max	227 mm
ra max	2.50 mm

Calculation factors

Equivalent dynamic radial load

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

$\frac{f_0 F_a}{C_0}$	e	$F_a / F_r \leq e$		$F_a / F_r > e$	
		X	Y	X	Y
0.172	0.19	1	0	0.56	2.3
0.345	0.22				1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.3				1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42				1.04
6.89	0.44				1

Equivalent static radial load

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

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If $P_0 < F_r$, then use $P_0 = F_r$