

PDF technical sheet 6215C4



Single row deep groove ball bearings

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

Product definition

d	75 mm
D	130 mm
B	25 mm
rs min	1.50 mm
Radial clearance class	C4
Mass	1.18 kg
Brand	NTN



Product performance

Dynamic load, C	66 kN
Static load, C0	49.50 kN
Fatigue limit load, Cu	2.21 kN
f0	14.7
Nlim (oil)	5,600 Tr/min
Nlim (grease)	4,800 Tr/min
Min operating temperature, Tmin	-60 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.76 Hz
Characteristic outer ring frequency, BPF0	4.57 Hz
Characteristic inner ring frequency, BPF1	6.43 Hz



Abutment dimensions

da min	83 mm
Da max	122 mm
ra max	1.50 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 $P_0 = F_r$