

PDF technical sheet 6328C3



Single row deep groove ball bearings

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

Product definition

d	5.5118 "
D	11.8110 "
B	2.4409 "
rs min	0.1575 "
Radial clearance class	C3
Mass	65.26 oz
Brand	NTN



Product performance

Dynamic load, C	253 kN
Static load, C0	246 kN
Fatigue limit load, Cu	7.50 kN
f0	13.6
Nlim (oil)	2,600 RPM
Nlim (grease)	2,200 RPM
Min operating temperature, Tmin	-76 °C
Characteristic cage frequency, FTF	0.39 Hz
Characteristic rolling element frequency, BSF	4.40 Hz
Characteristic outer ring frequency, BPF0	3.13 Hz
Characteristic inner ring frequency, BPF1	4.87 Hz



Abutment dimensions

da min	6.1417 "
Da max	11.1811 "
ra max	0.1181 "

Calculation factors

Equivalent dynamic radial load

$$P = X \cdot Fr + Y \cdot Fa$$

$\frac{f_0 F_a}{C_0}$	e	$F_a / Fr \leq e$		$F_a / Fr > e$	
		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

$$P_0 = X_0 \cdot Fr + Y_0 \cdot Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

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