

PDF technical sheet 6332



Single row deep groove ball bearings

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

Product definition

d	6.2992 "
D	13.3858 "
B	2.6772 "
rs min	0.1575 "
Radial clearance class	CN
Mass	91.71 oz
Brand	NTN



Product performance

Dynamic load, C	278 kN
Static load, C0	286 kN
Fatigue limit load, Cu	8.20 kN
f0	13.9
Nlim (oil)	2,300 RPM
Nlim (grease)	1,900 RPM
Min operating temperature, Tmin	-4 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.40 Hz
Characteristic rolling element frequency, BSF	4.72 Hz
Characteristic outer ring frequency, BPF0	3.19 Hz
Characteristic inner ring frequency, BPF1	4.81 Hz



Abutment dimensions

da min	6.9291 "
Da max	12.7559 "
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 $P_0 = Fr$