

PDF technical sheet 6832C3



Single row deep groove ball bearings

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

Product definition

d	6.2992 "
D	7.8740 "
B	0.7874 "
rs min	0.0433 "
Radial clearance class	C3
Mass	4.34 oz
Brand	NTN



Product performance

Dynamic load, C	48.50 kN
Static load, C0	57 kN
Fatigue limit load, Cu	2.39 kN
f0	16.1
Nlim (oil)	3,400 RPM
Nlim (grease)	2,900 RPM
Min operating temperature, Tmin	-4 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	15.05 Hz
Characteristic outer ring frequency, BPF0	11.67 Hz
Characteristic inner ring frequency, BPF1	13.33 Hz



Abutment dimensions

da min	6.5551 "
Da max	7.6181 "
ra max	0.0394 "

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 $P_0 = F_r$