

PDF technical sheet 6826C3



Single row deep groove ball bearings

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

Product definition	
d	130 mm
D	165 mm
B	18 mm
rs min	1.10 mm
Radial clearance class	C3
Mass	0.80 kg
Brand	NTN



Product performance	
Dynamic load, C	37 kN
Static load, C0	41 kN
Fatigue limit load, Cu	1.53 kN
f0	16.1
Nlim (oil)	4,300 Tr/min
Nlim (grease)	3,700 Tr/min
Min operating temperature, Tmin	-60 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	14.22 Hz
Characteristic outer ring frequency, BPF0	11.16 Hz
Characteristic inner ring frequency, BPF1	12.84 Hz



Abutment dimensions

da min	136.50 mm
Da max	158.50 mm
ra max	1 mm

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 $P_0 = Fr$