

PDF technical sheet 6320LLUC3/5K



Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, contact seals on both sides

Product definition

d	3.9370 "
D	8.4646 "
B	1.8504 "
rs min	0.1181 "
Radial clearance class	C3
Mass	24.69 oz
Brand	NTN



Product performance

Dynamic load, C	173 kN
Static load, C0	141 kN
Fatigue limit load, Cu	5.10 kN
f0	13.2
Nlim (grease)	2,200 RPM
Min operating temperature, Tmin	-13 °C
Max operating temperature, Tmax	230 °C
Characteristic cage frequency, FTF	0.38 Hz
Characteristic rolling element frequency, BSF	4.08 Hz
Characteristic outer ring frequency, BPF0	3.07 Hz
Characteristic inner ring frequency, BPF1	4.93 Hz



Abutment dimensions

da min	4.4488 "
Da max	7.9528 "
ra max	0.0984 "

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 $P_0 = Fr$