

PDF technical sheet 6216NC4



Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, snap ring groove on outer diameter, open

Product definition

d	3.1496 "
D	5.5118 "
B	1.0236 "
a min	0.1831 "
a max	0.1929 "
rs min	0.0787 "
rNs min	0.0197 "
D3 max	5.3240 "
b min	0.1220 "
b max	0.1339 "
r0 max	0.0236 "
Radial clearance class	C4
Mass	4.94 oz
Brand	NTN



Product performance

Dynamic load, C	72.50 kN
Static load, C0	53 kN
Fatigue limit load, Cu	2.30 kN
f0	14.6
Nlim (oil)	5,300 RPM
Nlim (grease)	4,500 RPM
Min operating temperature, Tmin	-76 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.60 Hz
Characteristic outer ring frequency, BPF0	4.13 Hz
Characteristic inner ring frequency, BPF1	5.87 Hz



Abutment dimensions

da min	3.5039 "
Da max	5.1575 "
ra max	0.0787 "
rNa max	0.0197 "

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 $P_0 = F_r$