

PDF technical sheet 16034C3



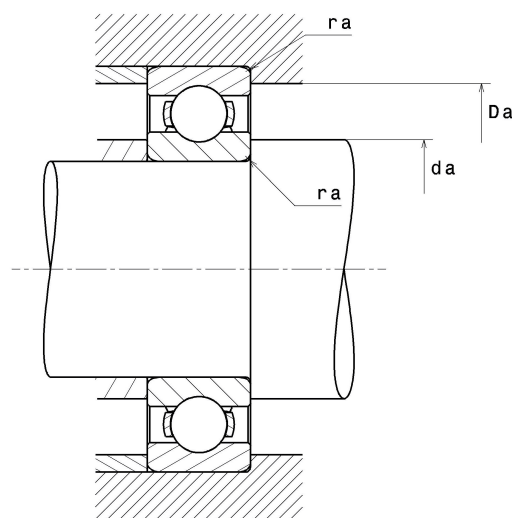
Single row deep groove ball bearings

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

Product definition	
d	6.6929 "
D	10.2362 "
B	1.1024 "
rs min	0.0591 "
Radial clearance class	C3
Mass	17.39 oz
Brand	NTN



Product performance	
Dynamic load, C	119 kN
Static load, C0	128 kN
Fatigue limit load, Cu	3.95 kN
f0	16.4
Nlim (oil)	2,800 RPM
Nlim (grease)	2,400 RPM
Min operating temperature, Tmin	-76 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	9.93 Hz
Characteristic outer ring frequency, BPF0	7.65 Hz
Characteristic inner ring frequency, BPF1	9.35 Hz



Abutment dimensions

da min	7.0079 "
Da max	9.9213 "
ra max	0.0591 "

Calculation factors

Equivalent dynamic radial load

$$P = X.Fr + Y.Fa$$

$\frac{f_0 F_a}{C_0}$	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

$$P_0 = X_0.Fr + Y_0.Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If $P_0 < Fr$, then use $P_0 = Fr$