

PDF technical sheet 16038C3



Single row deep groove ball bearings

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

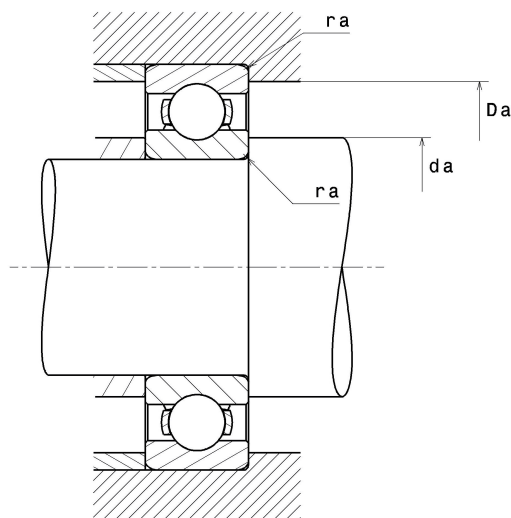
Product definition

d	7.4803 "
D	11.4173 "
B	1.2205 "
rs min	0.0787 "
Radial clearance class	C3
Mass	23.88 oz
Brand	NTN



Product performance

Dynamic load, C	134 kN
Static load, C0	156 kN
Fatigue limit load, Cu	4.60 kN
f0	16.6
Nlim (oil)	2,500 RPM
Nlim (grease)	2,100 RPM
Min operating temperature, Tmin	-76 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.71 Hz
Characteristic outer ring frequency, BPF0	8.62 Hz
Characteristic inner ring frequency, BPF1	10.38 Hz



Abutment dimensions

da min	7.8346 "
Da max	11.0630 "
ra max	0.0787 "

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 $P_0 = F_r$