

PDF technical sheet 6060



Single row deep groove ball bearings

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

Product definition

d	11.8110 "
D	18.1102 "
B	2.9134 "
rs min	0.1575 "
Radial clearance class	CN
Mass	154.50 oz
Brand	NTN



Product performance

Dynamic load, C	355 kN
Static load, C0	480 kN
Fatigue limit load, Cu	11.20 kN
f0	15.6
Nlim (oil)	1,500 RPM
Nlim (grease)	1,300 RPM
Min operating temperature, Tmin	-4 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.35 Hz
Characteristic outer ring frequency, BPF0	5.20 Hz
Characteristic inner ring frequency, BPFI	6.80 Hz



Abutment dimensions

da min	12.4409 "
Da max	17.4803 "
ra max	0.1181 "

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 $P_0 = F_r$