

PDF technical sheet 6318LLUC3/2AS



Single row deep groove ball bearings

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

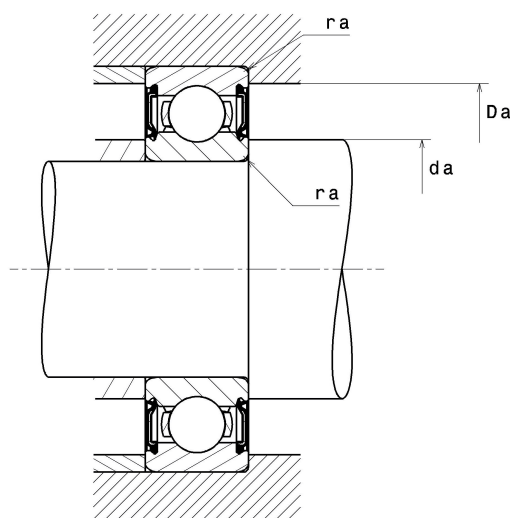
Product definition

d	3.5433 "
D	7.4803 "
B	1.6929 "
rs min	0.1181 "
Radial clearance class	C3
Mass	17.32 oz
Brand	NTN



Product performance

Dynamic load, C	143 kN
Static load, C0	107 kN
Fatigue limit load, Cu	4.10 kN
f0	13.3
Nlim (grease)	2,400 RPM
Min operating temperature, Tmin	-13 °C
Max operating temperature, Tmax	230 °C
Characteristic cage frequency, FTF	0.39 Hz
Characteristic rolling element frequency, BSF	4.18 Hz
Characteristic outer ring frequency, BPF0	3.09 Hz
Characteristic inner ring frequency, BPF1	4.91 Hz



Abutment dimensions

da min	4.0551 "
da max	4.6457 "
Da max	6.9685 "
ra max	0.0984 "

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 $P_0 = F_r$