

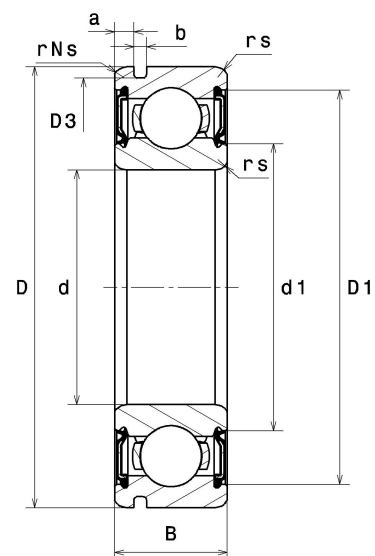
PDF technical sheet 6007LLUNC3/5C



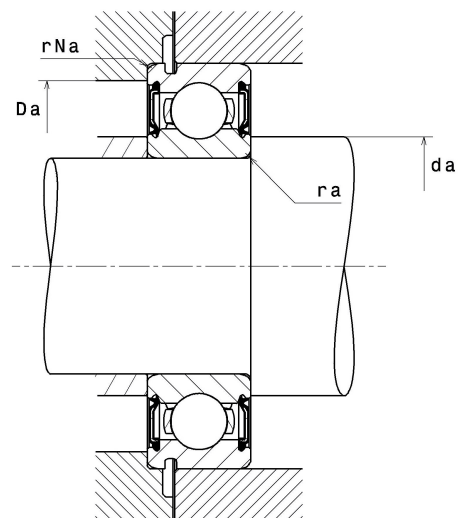
Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, snap ring groove on outer diameter, contact seals on both sides

Product definition	
d	1.3780 "
D	2.4409 "
B	0.5512 "
a min	0.0740 "
a max	0.0819 "
rs min	0.0394 "
rNs min	0.0197 "
D3 max	2.3469 "
b min	0.0748 "
b max	0.0866 "
r0 max	0.0236 "
Radial clearance class	C3
Mass	0.55 oz
Brand	NTN



Product performance	
Dynamic load, C	16 kN
Static load, C0	10.30 kN
Fatigue limit load, Cu	0.47 kN
f0	14.8
Nlim (grease)	6,800 RPM
Min operating temperature, Tmin	-13 °C
Max operating temperature, Tmax	230 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.95 Hz
Characteristic outer ring frequency, BPF0	4.60 Hz
Characteristic inner ring frequency, BPFI	6.40 Hz



Abutment dimensions

da min	1.5748 "
da max	1.6535 "
Da max	2.2441 "
ra max	0.0394 "
rNa max	0.0197 "

Calculation factors

Equivalent dynamic radial load

$$P = X \cdot Fr + Y \cdot Fa$$

$\frac{f_0 F_a}{C_0}$	e	Fa / Fr ≤ e		Fa / 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

$$P_0 = X_0 \cdot Fr + Y_0 \cdot Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

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