

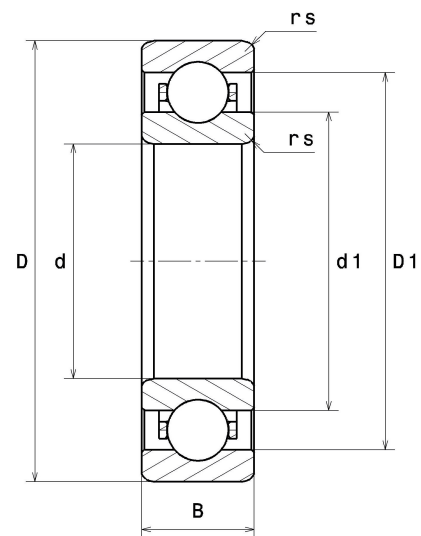
PDF technical sheet 6030L1C3



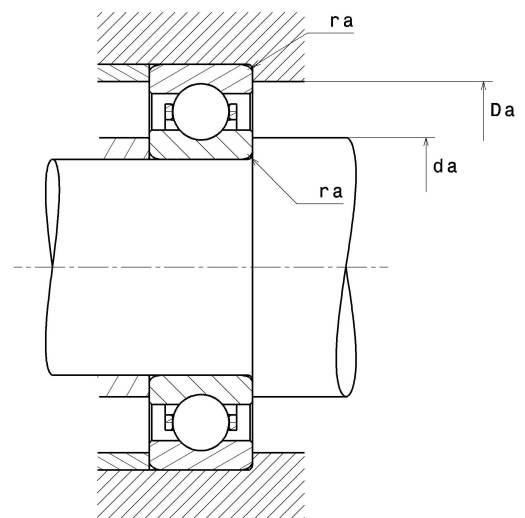
Single row deep groove ball bearings

Deep groove ball bearing, radial contact, machined cage, open

Product definition	
d	150 mm
D	225 mm
B	35 mm
rs min	2.10 mm
Radial clearance class	C3
Mass	4.08 kg
Brand	NTN



Product performance	
Dynamic load, C	126 kN
Static load, C0	126 kN
Fatigue limit load, Cu	4.20 kN
f0	15.9
Nlim (oil)	3,200 Tr/min
Nlim (grease)	2,800 Tr/min
Min operating temperature, Tmin	-60 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.32 Hz
Characteristic outer ring frequency, BPF0	7.05 Hz
Characteristic inner ring frequency, BPF1	8.95 Hz



Abutment dimensions

da min	161 mm
Da max	214 mm
ra max	2 mm

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 $P_0 = Fr$