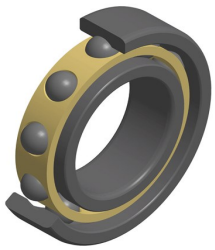
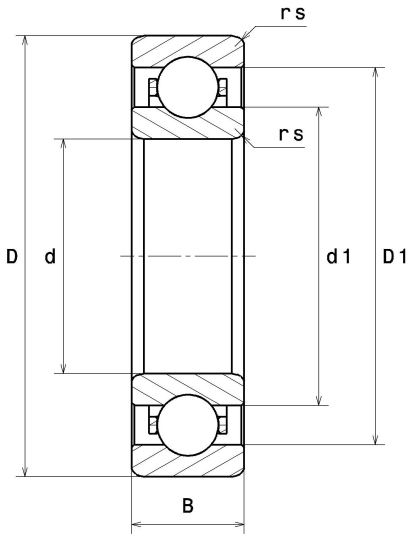
PDF technical sheet
6321L1C3

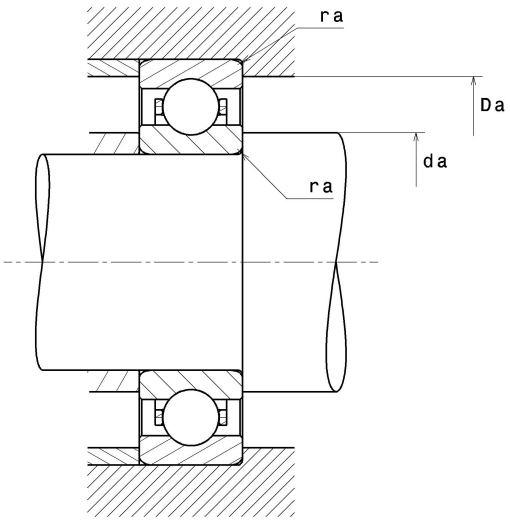


Single row deep groove ball bearings
Deep groove ball bearing, radial contact, machined cage, open

Product definition	
d	105 mm
D	225 mm
B	49 mm
rs min	3 mm
Radial clearance class	C3
Mass	8.05 kg
Brand	NTN



Product performance	
Dynamic load, C	184 kN
Static load, C0	153 kN
Fatigue limit load, Cu	5.40 kN
f0	13.2
Nlim (oil)	3,600 Tr/min
Nlim (grease)	3,000 Tr/min
Min operating temperature, Tmin	−20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.39 Hz
Characteristic rolling element frequency, BSF	4.10 Hz
Characteristic outer ring frequency, BPF0	3.08 Hz
Characteristic inner ring frequency, BPFI	4.92 Hz



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Code APE 2815 Z – Code NACE 28.15

Abutment dimensions	
da min	118 mm
Da max	212 mm
ra max	2.50 mm

Calculation factors

Equivalent dynamic radial load

P = X.Fr + Y.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

Po = Xo.Fr + Yo.Fa

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If Po <Fr, then use Po = Fr