

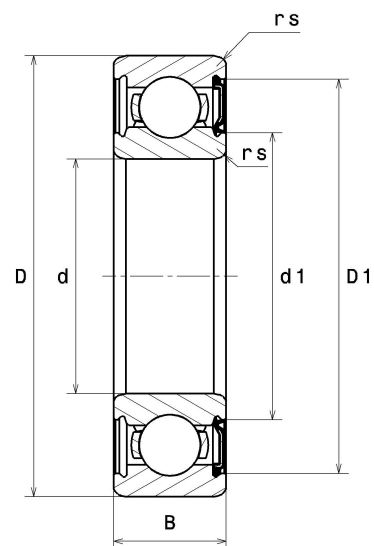
PDF technical sheet 6313LUC3



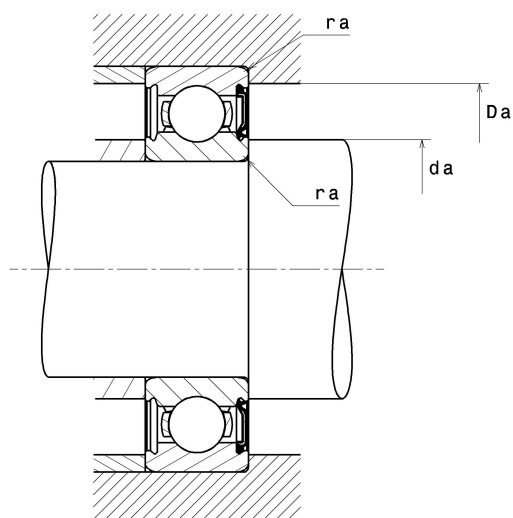
Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, contact seal on one side

Product definition	
d	65 mm
D	140 mm
B	33 mm
rs min	2.10 mm
Radial clearance class	C3
Mass	2.08 kg
Brand	NTN



Product performance	
Dynamic load, C	92.50 kN
Static load, C0	60 kN
Fatigue limit load, Cu	2.70 kN
f0	13.2
Nlim (grease)	3,300 Tr/min
Min operating temperature, Tmin	-25 °C
Characteristic cage frequency, FTF	0.38 Hz
Characteristic rolling element frequency, BSF	4.07 Hz
Characteristic outer ring frequency, BPF0	3.07 Hz
Characteristic inner ring frequency, BPFI	4.93 Hz



Abutment dimensions

da min	76 mm
da max	86 mm
Da max	129 mm
ra max	2 mm

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 $P_0 = F_r$