



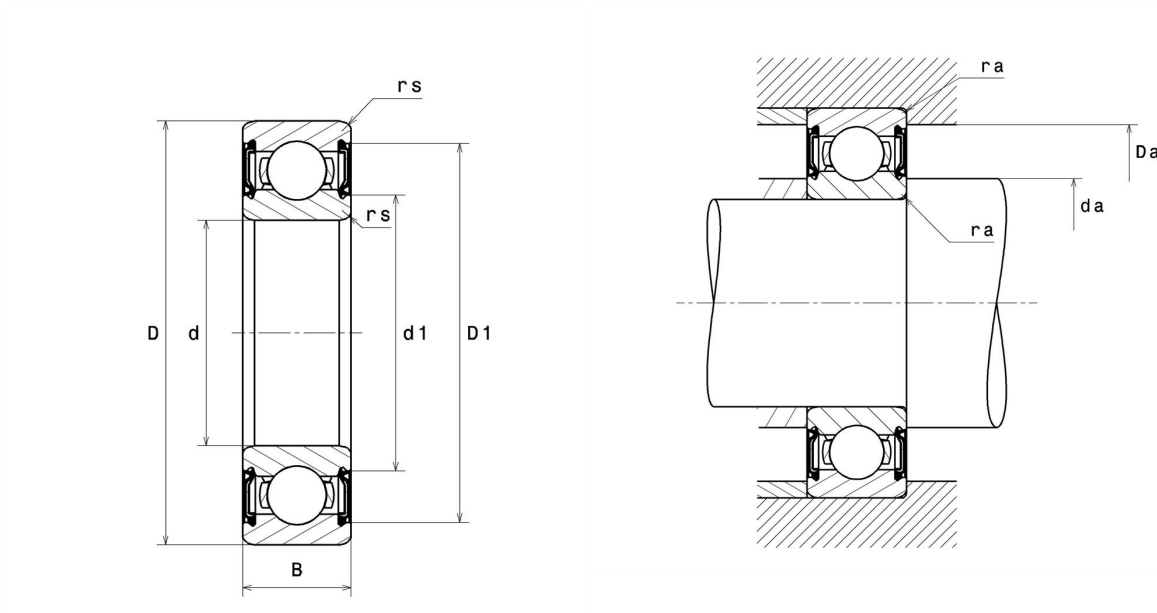
Technical data

6000LLUC3/5K

Single row deep groove ball bearings

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

Visual(s)



Product definition

d	10 mm
D	26 mm
B	8 mm
rs min	0.3 mm
Radial clearance class	C3
Mass	0.02 kg
Brand	NTN

Product performance

Dynamic load, C	4.55 kN
Static load, C₀	1.96 kN
Fatigue limit load, C_u	0.09 kN
f₀	12.4
N_{lim} (grease)	21,000 Tr/min
Min operating temperature, T_{min}	-25 °C
Max operating temperature, T_{max}	110 °C
Characteristic cage frequency, FTF	0.37 Hz
Characteristic rolling element frequency, BSF	3.47 Hz
Characteristic outer ring frequency, BPF₀	2.56 Hz
Characteristic inner ring frequency, BPFI	4.44 Hz

Abutment dimensions

da min	12 mm
da max	13.5 mm
Da max	24 mm
ra max	0.3 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 ≤ 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 P₀ < F_r, then use P₀ = F_r