

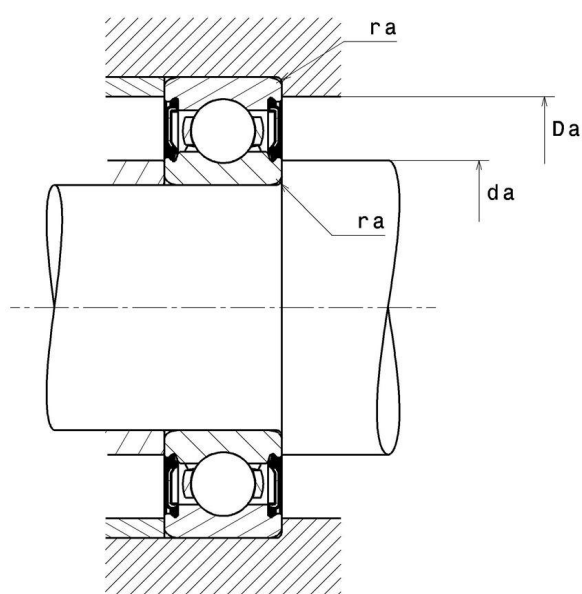
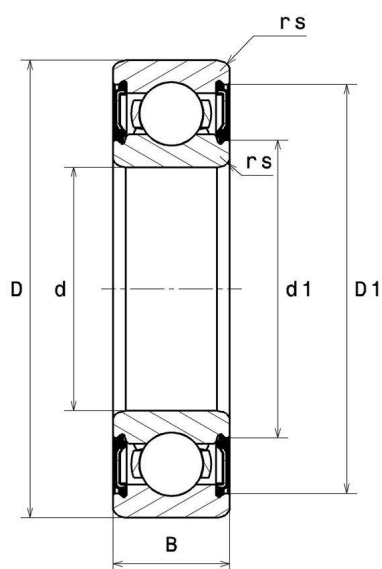
Technical data

6006LLBC3/5K

Single row deep groove ball bearings

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

VISUAL (S)



6006LLBC3/5K

Single row deep groove ball bearings

PRODUCT DIMENSIONS

Internal diameter d	30 mm
External diameter D	55 mm
Bearing/Inner ring width(B)	13 mm
Min fillet radius rs	1 mm
Radial clearance class	C3
Mass	0,116 kg
Brand	NTN

PRODUCT PERFORMANCE

Dynamic load, C	14,7 kN
Static load, C0	8,3 kN
Fatigue limit load, Cu	0,65 kN
Coefficient f0	14.8
Nlim (grease)	13000 tr/min
Min operating temperature, Tmin	-25 °C
Max operating temperature, Tmax	110 °C
Characteristic cage frequency, FTF	0.417 Hz
Characteristic rolling element frequency, BSF	5.853 Hz
Characteristic outer ring frequency, BPF0	4.586 Hz
Characteristic inner ring frequency, BPFI	6.414 Hz

ABUTMENT

Min shoulder diameter IR da min	35 mm
Max shoulder diameter IR da max	37 mm
Max shoulder diameter OR Da max	50 mm
Max shaft & housing fillet radius ra max	1 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$\frac{f_0 F_a}{C_0}$	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

$$P_0 = X_0.F_r + Y_0.F_a$$

X ₀	Y ₀
0.6	0.5

For single or DT bearing arrangement :

If P₀ <F_r, then use P₀ = F_r