

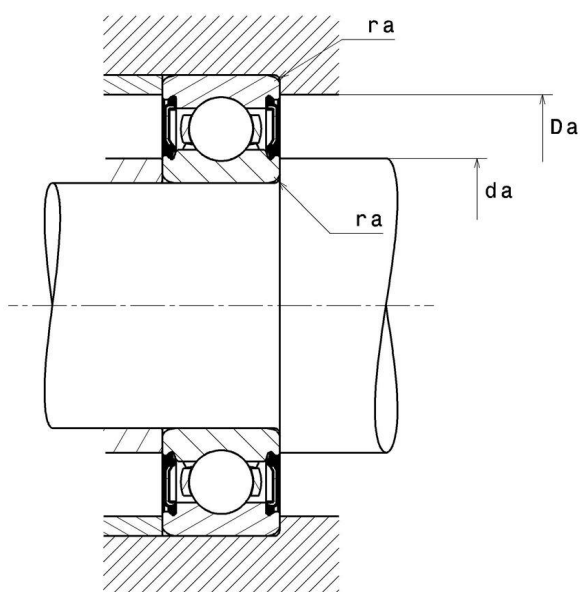
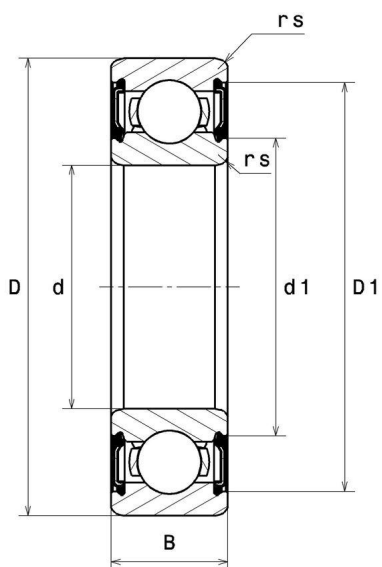
Technical data

6010LLBC3/5K

Single row deep groove ball bearings

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

VISUAL (S)



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Single row deep groove ball bearings

PRODUCT DIMENSIONS

Internal diameter d	50 mm
External diameter D	80 mm
Bearing/Inner ring width(B)	16 mm
Min fillet radius rs	1 mm
Radial clearance class	C3
Mass	0,261 kg
Brand	NTN

PRODUCT PERFORMANCE

Dynamic load, C	24,2 kN
Static load, C0	16,6 kN
Fatigue limit load, Cu	1,24 kN
Coefficient f0	15.5
Nlim (grease)	8400 tr/min
Min operating temperature, Tmin	-25 °C
Max operating temperature, Tmax	110 °C
Characteristic cage frequency, FTF	0.433 Hz
Characteristic rolling element frequency, BSF	7.31 Hz
Characteristic outer ring frequency, BPF0	6.06 Hz
Characteristic inner ring frequency, BPF1	7.94 Hz

ABUTMENT

Min shoulder diameter IR da min	55 mm
Max shoulder diameter IR da max	57,5 mm
Max shoulder diameter OR Da max	75 mm
Max shaft & housing fillet radius ra max	1 mm

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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 $P_0 < F_r$, then use $P_0 = F_r$