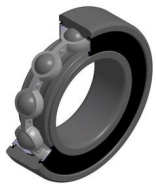
Technical data

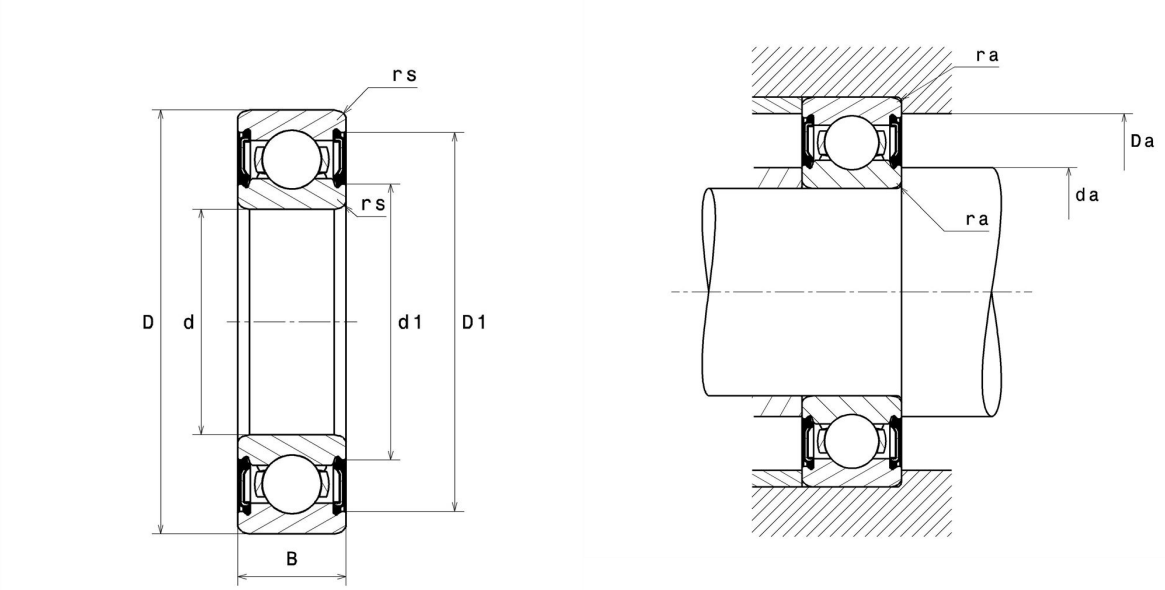
6820LLB/5K

Single row deep groove ball bearings



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

Visual(s)



Product definition

d	100 mm
D	125 mm
B	13 mm
rs min	1 mm
Radial clearance class	CN
Mass	0.31 kg
Brand	NTN

Product performance

Dynamic load, C	19.6 kN
Static load, C0	21.2 kN
Fatigue limit load, Cu	0.91 kN
f0	16
Nlim (grease)	4,800 Tr/min
Min operating temperature, Tmin	-25 °C
Max operating temperature, Tmax	110 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	15.68 Hz
Characteristic outer ring frequency, BPF0	12.18 Hz
Characteristic inner ring frequency, BPFI	13.83 Hz

Abutment dimensions

da min	105 mm
da max	106 mm
Da max	120 mm
ra max	1 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