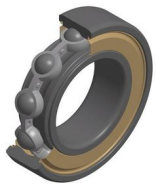
Technical data

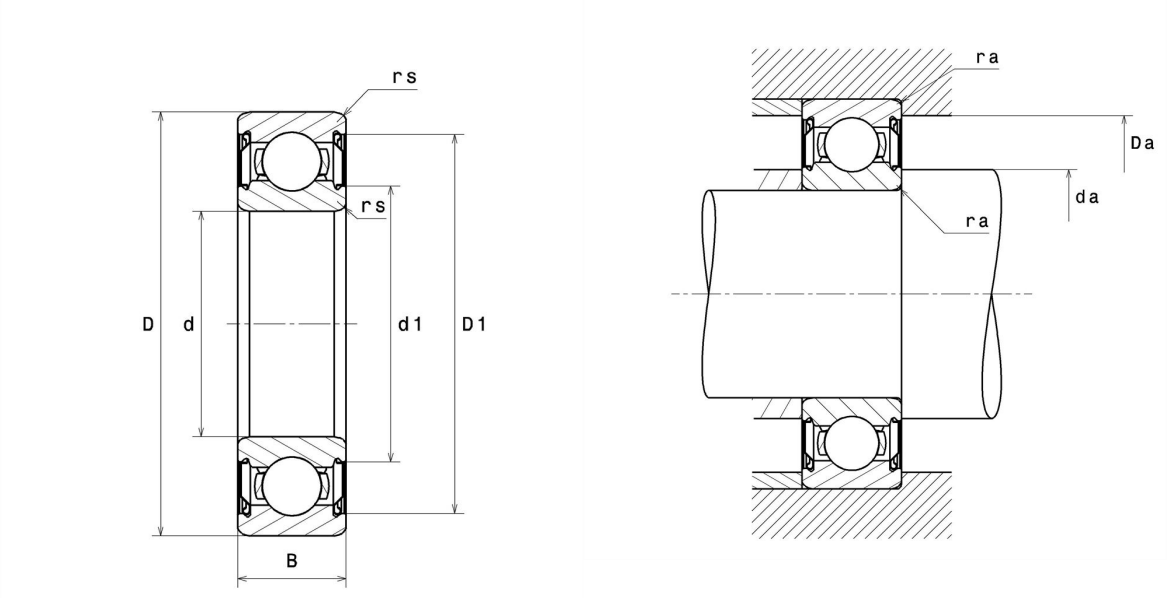
6310ZZC3/5K

Single row deep groove ball bearings



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

Visual(s)



Product definition

d	50 mm
D	110 mm
B	27 mm
rs min	2 mm
Radial clearance class	C3
Mass	1.07 kg
Brand	NTN

Product performance

Dynamic load, C	62 kN
Static load, C0	38.5 kN
Fatigue limit load, Cu	1.75 kN
f0	13.2
Nlim (grease)	6,400 Tr/min
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °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	59 mm
Da max	101 mm
ra max	2 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