Technical data

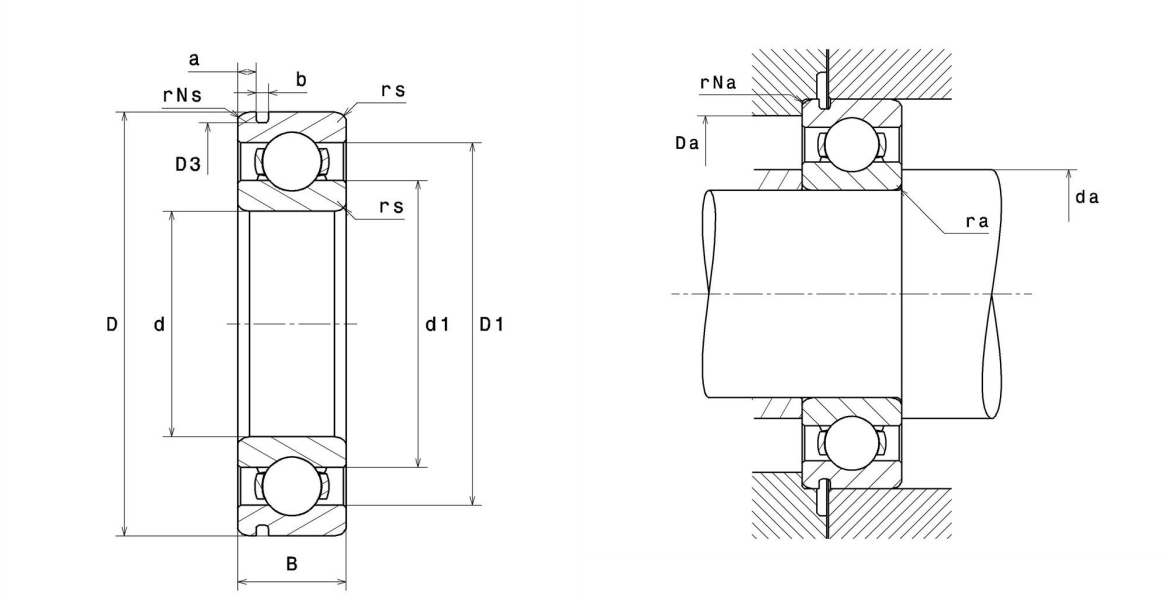
6312.NC3

Single row deep groove ball bearings



Deep groove ball bearing, radial contact, pressed steel cage, snap ring groove on outer diameter, open

Visual(s)



Product definition

d	60 mm
D	130 mm
B	31 mm
d1	76.4 mm
D1	115.8 mm
a min	3.86 mm
a max	4.06 mm
rs min	2.1 mm
rNs min	0.5 mm
D3 max	125.22 mm
b min	3.1 mm
b max	3.4 mm
r0 max	0.6 mm
Radial clearance class	C3
Mass	1.68 kg
Brand	SNR

Product performance

Dynamic load, C	81.6 kN
Static load, C0	52.2 kN
Fatigue limit load, Cu	2.37 kN
f0	13.2
Nref	6,800 Tr/min
Nlim	8,600 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.38 Hz
Characteristic rolling element frequency, BSF	4.09 Hz
Characteristic outer ring frequency, BPF0	3.07 Hz
Characteristic inner ring frequency, BPFI	4.93 Hz

Abutment dimensions

da min	71 mm
Ce min	0 mm
Da max	119 mm
ra max	2 mm
rNa max	0.5 mm
Db min	141.5 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