Technical data

6221

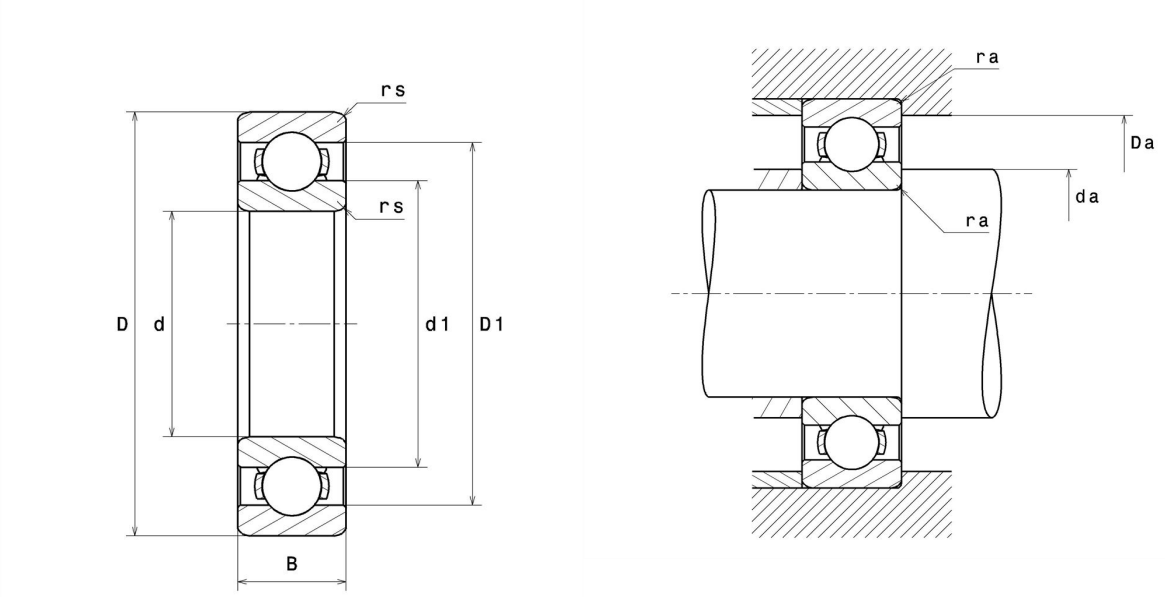
Single row deep groove ball bearings



Deep groove ball bearing, radial contact, pressed steel cage, open

ULTAGE

Visual(s)



Product definition

d	105 mm
D	190 mm
B	36 mm
d1	132.2 mm
D1	163.4 mm
a min	0 mm
rs min	2.1 mm
rNs min	0 mm
Radial clearance class	CN
Mass	3.75 kg
Brand	SNR

Product performance

Dynamic load, C	0 kN
Static load, C0	105 kN
Fatigue limit load, Cu	3.95 kN
f0	14.4
Nref	4,700 Tr/min
Nlim	5,500 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.28 Hz
Characteristic outer ring frequency, BPF0	4.08 Hz
Characteristic inner ring frequency, BPFI	5.92 Hz

Abutment dimensions

da min	116 mm
db min	0 mm
Ce min	0 mm
Da max	179 mm
ra max	2 mm
Db min	0 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