Technical data

623

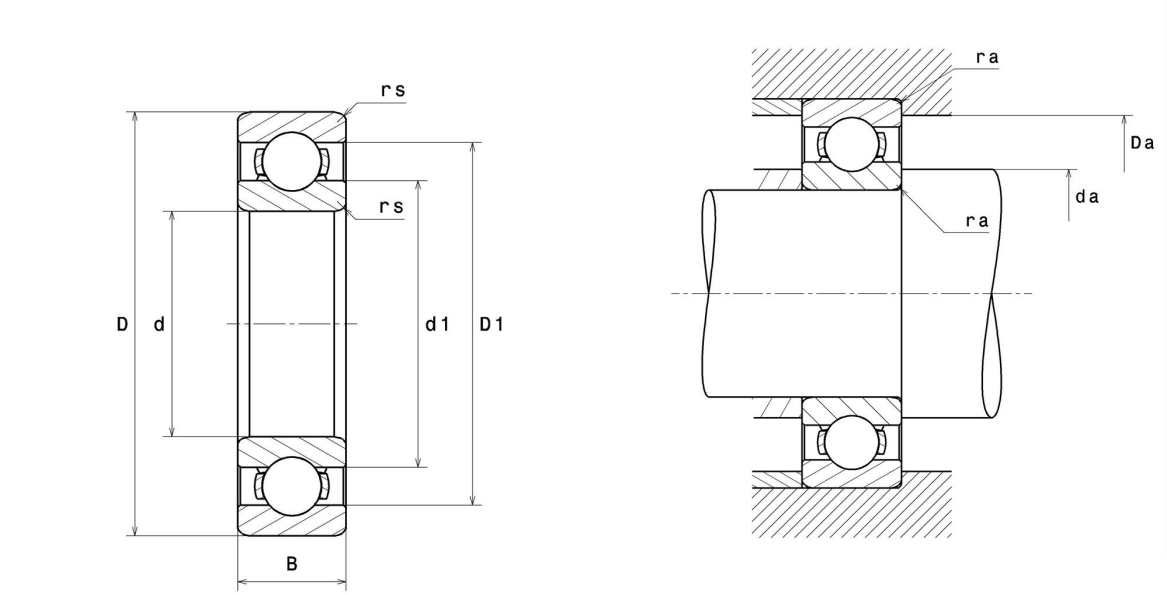
Single row deep groove ball bearings



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

ULTAGE

Visual(s)



Product definition

d	3 mm
D	10 mm
B	4 mm
d1	4.7 mm
D1	8.4 mm
a min	0 mm
rs min	0.15 mm
rNs min	0 mm
Radial clearance class	CN
Mass	0.0015 kg
Brand	SNR

Product performance

Dynamic load, C	0 kN
Static load, C0	0.13 kN
Fatigue limit load, Cu	0.02 kN
f0	7.6
Nref	57,000 Tr/min
Nlim	102,000 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	3.85 Hz
Characteristic outer ring frequency, BPF0	2.64 Hz
Characteristic inner ring frequency, BPFI	4.36 Hz

Abutment dimensions

da min	4.2 mm
da max	4.7 mm
db min	0 mm
Ce min	0 mm
Da max	8.8 mm
ra max	0.15 mm
rNa max	0 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