Technical data

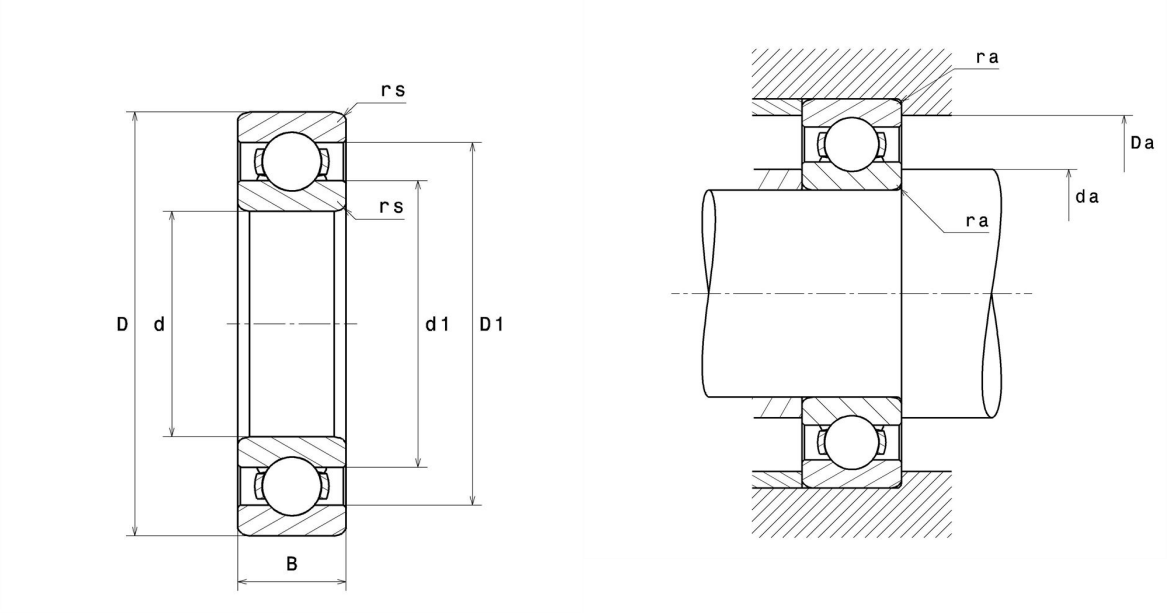
6305.C4

Single row deep groove ball bearings



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

Visual(s)



Product definition

d	25 mm
D	62 mm
B	17 mm
d1	33.6 mm
D1	52.6 mm
rs min	1.1 mm
Radial clearance class	C4
Mass	0.22 kg
Brand	SNR

Product performance

Dynamic load, C	23.5 kN
Static load, C0	12.1 kN
Fatigue limit load, Cu	0.55 kN
f0	12.2
Nref	12,000 Tr/min
Nlim	19,000 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.36 Hz
Characteristic rolling element frequency, BSF	3.38 Hz
Characteristic outer ring frequency, BPF0	2.54 Hz
Characteristic inner ring frequency, BPFI	4.46 Hz

Abutment dimensions

da min	31.5 mm
da max	33.6 mm
Ce min	0 mm
Da max	55.5 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