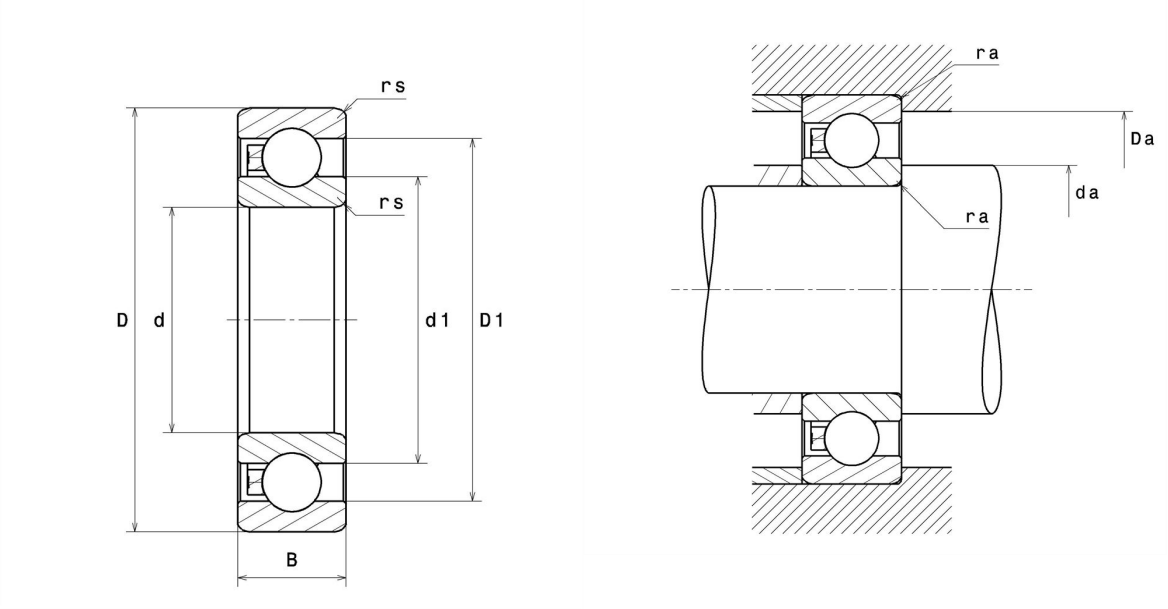
Technical data

6205.G15C3

Single row deep groove ball bearings

Deep groove ball bearing, radial contact, polyamide cage, open

Visual(s)



Product definition

d	25 mm
D	52 mm
B	15 mm
d1	31.8 mm
D1	49.2 mm
rs min	1 mm
Radial clearance class	C3
Mass	0.13 kg
Brand	SNR

Product performance

Dynamic load, C	13.8 kN
Static load, C0	7.9 kN
Fatigue limit load, Cu	0.45 kN
f0	13.9
Nref	14,000 Tr/min
Nlim	22,000 Tr/min
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.4 Hz
Characteristic rolling element frequency, BSF	4.72 Hz
Characteristic outer ring frequency, BPF0	3.58 Hz
Characteristic inner ring frequency, BPFI	5.42 Hz

Abutment dimensions

da min	30 mm
Ce min	0 mm
Da max	47 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