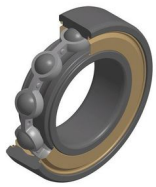
Technical data

6205.HT200.ZZ

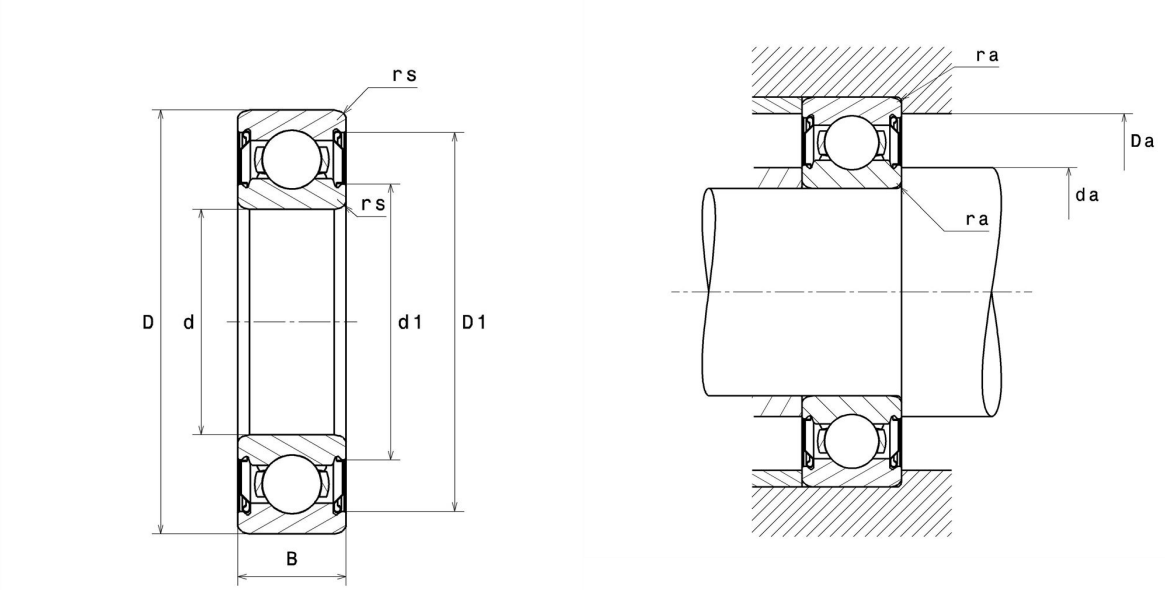
Single row deep groove ball bearings



TOPLINE deep groove ball bearing, radial contact, pressed steel cage, shields on both sides, applications up to 200°C.

ULTAGE

Visual(s)



Product definition

d	25 mm
D	52 mm
B	15 mm
d1	31.8 mm
D1	49.2 mm
a min	1 mm
rs min	1 mm
rNs min	1 mm
Snap ring reference	0
Associated sleeve reference	0002.3
Radial clearance class	C4
Mass	0.13 kg
Brand	SNR

Product performance

Dynamic load, C	0.45 kN
Static load, C0	7.9 kN
Fatigue limit load, Cu	0.45 kN
f0	13.9
Nref	14,000 Tr/min
Nlim	6,100 Tr/min
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	200 °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
da max	31.8 mm
db min	6,100 mm
Ce min	0 mm
Da max	47 mm
ra max	1 mm
rNa max	31.8 mm
Db min	30 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