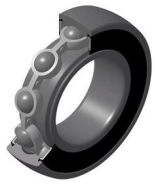
Technical data

6205.S.EE

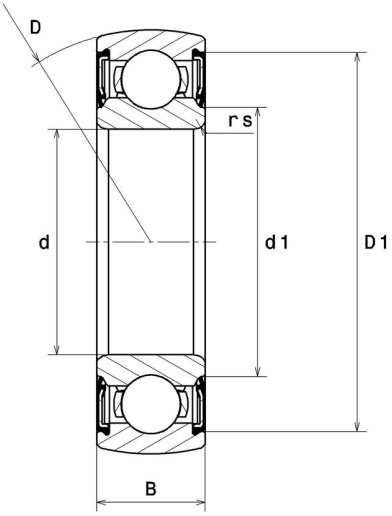
Single row deep groove ball bearings

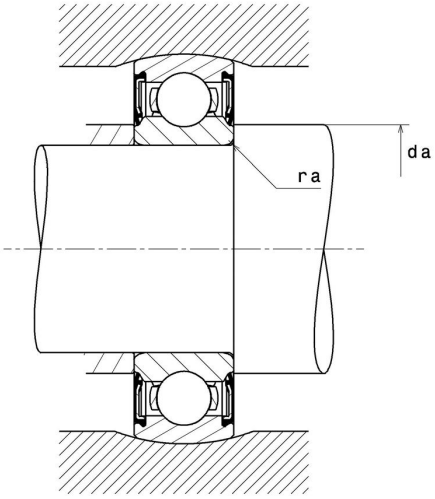


Deep groove ball bearing, radial contact, pressed steel cage, spherical outer diameter, contact seals on both sides

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	0.55 mm
Snap ring reference	0
Associated sleeve reference	0003.1
Radial clearance class	CN
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 Tr/min
Nlim	9,000 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
da max	31.8 mm
db min	9,000 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