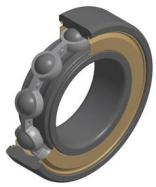
Technical data

6209.F604

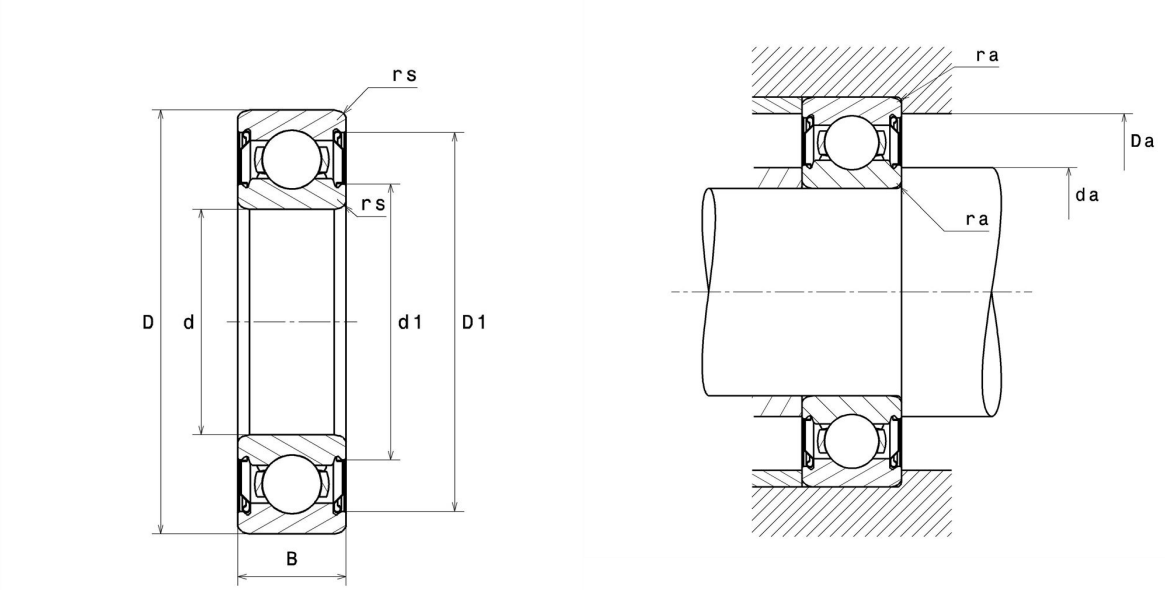
Single row deep groove ball bearings



TOPLINE deep groove ball bearing, radial contact, pressed steel cage, shields on both sides, applications up to 350°C.

ULTAGE

Visual(s)



Product definition

d	45 mm
D	85 mm
B	19 mm
d1	54.5 mm
D1	75.6 mm
a min	1 mm
rs min	1.1 mm
rNs min	1.1 mm
Snap ring reference	0
Associated sleeve reference	0009.3
Radial clearance class	> C5
Mass	0.39 kg
Brand	SNR

Product performance

Dynamic load, C	0 kN
Static load, C0	0.01 kN
Fatigue limit load, Cu	0 kN
f0	14.1
Nref	14 Tr/min
Nlim	70 Tr/min
Min operating temperature, Tmin	-30 °C
Max operating temperature, Tmax	350 °C
Characteristic cage frequency, FTF	0.4 Hz
Characteristic rolling element frequency, BSF	4.92 Hz
Characteristic outer ring frequency, BPF0	3.62 Hz
Characteristic inner ring frequency, BPFI	5.38 Hz

Abutment dimensions

da min	51.5 mm
db min	70 mm
Ce min	0 mm
Da max	78.5 mm
ra max	1 mm
Db min	51.5 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