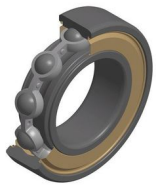
Technical data

6309F604

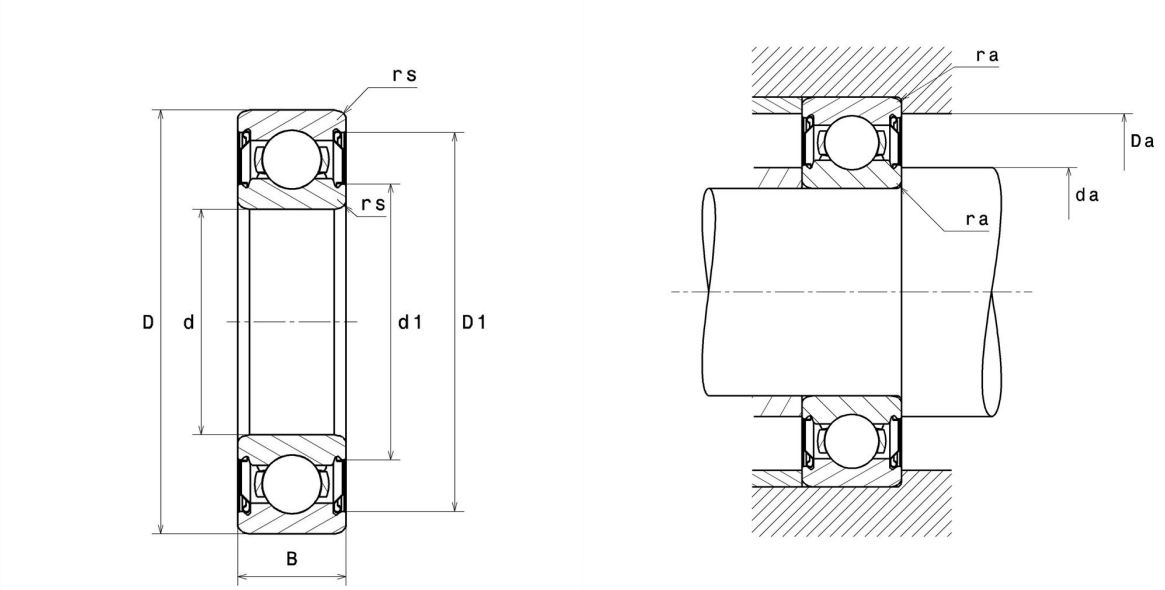
Single row deep groove ball bearings



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	100 mm
B	25 mm
d1	59.3 mm
D1	87.1 mm
a min	0 mm
rs min	1.5 mm
rNs min	0 mm
Radial clearance class	> C5
Mass	0.83 kg
Brand	SNR

Product performance

Dynamic load, C	0 kN
Static load, C0	0.01 kN
Fatigue limit load, Cu	0 kN
f0	13
Nref	0 Tr/min
Nlim	50 Tr/min
Min operating temperature, Tmin	-30 °C
Max operating temperature, Tmax	350 °C
Characteristic cage frequency, FTF	0.38 Hz
Characteristic rolling element frequency, BSF	3.91 Hz
Characteristic outer ring frequency, BPF0	3.04 Hz
Characteristic inner ring frequency, BPFI	4.96 Hz

Abutment dimensions

da min	53 mm
db min	0 mm
Ce min	0 mm
Da max	92 mm
ra max	1.5 mm
Db min	0 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