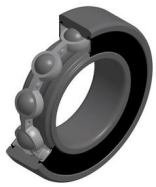
Technical data

6024.EE

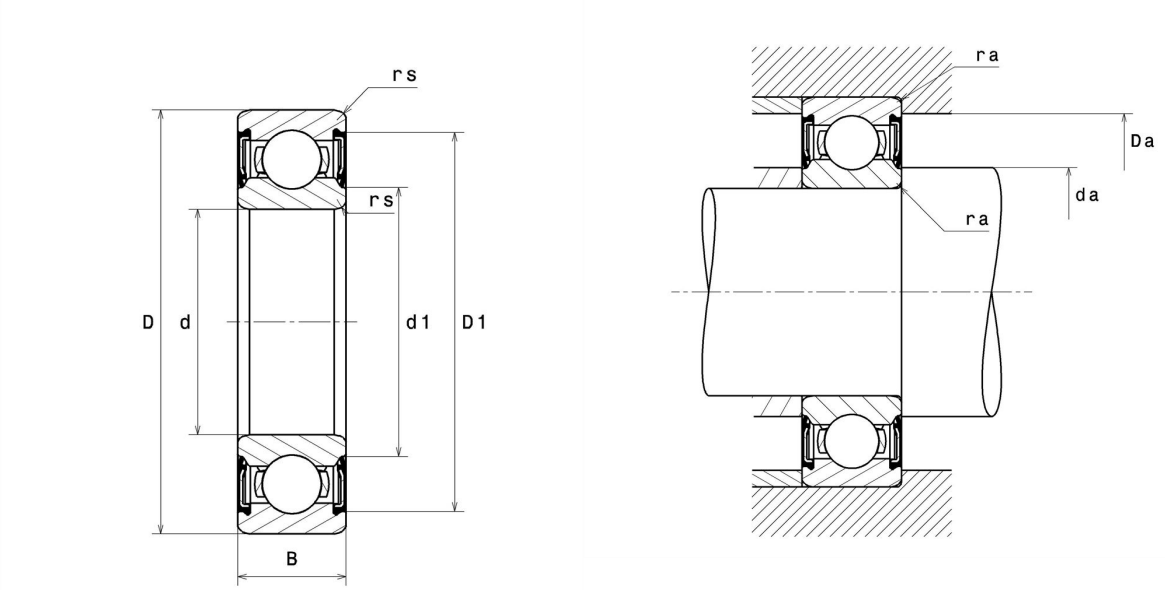
Single row deep groove ball bearings



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

ULTAGE

Visual(s)



Product definition

d	120 mm
D	180 mm
B	28 mm
d1	133.6 mm
D1	166.4 mm
a min	1 mm
rs min	2 mm
rNs min	2 mm
Snap ring reference	0
Associated sleeve reference	0029.8
Radial clearance class	CN
Mass	2.1 kg
Brand	SNR

Product performance

Dynamic load, C	2.95 kN
Static load, C0	79.3 kN
Fatigue limit load, Cu	2.95 kN
f0	15.9
Nref	16 Tr/min
Nlim	2,100 Tr/min
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.1 Hz
Characteristic outer ring frequency, BPF0	6.59 Hz
Characteristic inner ring frequency, BPFI	8.41 Hz

Abutment dimensions

da min	129 mm
da max	133.6 mm
db min	2,100 mm
Ce min	0 mm
Da max	171 mm
ra max	2 mm
rNa max	133.6 mm
Db min	129 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