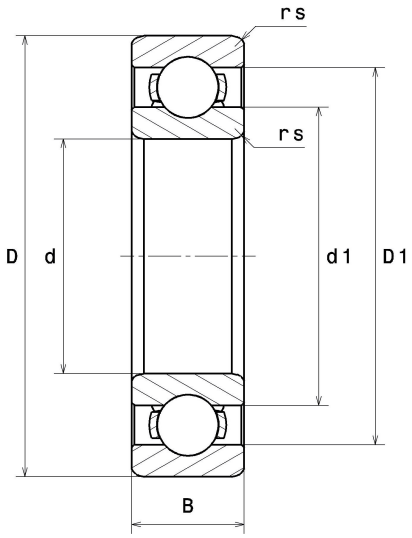
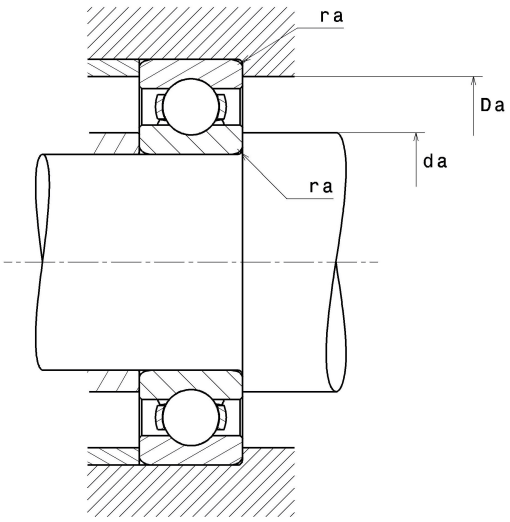
PDF technical sheet
6012

Single row deep groove ball bearings
Deep groove ball bearing, radial contact, pressed steel cage, open

Product definition	
d	2.3622 "
D	3.7402 "
B	0.7087 "
d1	2.8031 "
D1	3.3819 "
rs min	0.0433 "
Radial clearance class	CN
Mass	1.36 oz
Brand	SNR



Product performance	
Dynamic load, C	31 kN
Static load, C0	24.20 kN
Fatigue limit load, Cu	1.10 kN
f0	15.4
Nref	7,600 RPM
Nlim	11,000 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.00 Hz
Characteristic outer ring frequency, BPF0	5.59 Hz
Characteristic inner ring frequency, BPFI	7.41 Hz



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Code APE 2815 Z – Code NACE 28.15

Abutment dimensions	
da min	2.6181 "
Da max	3.4843 "
ra max	0.0394 "

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