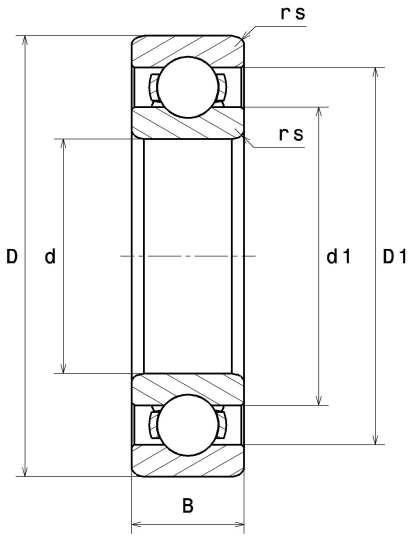
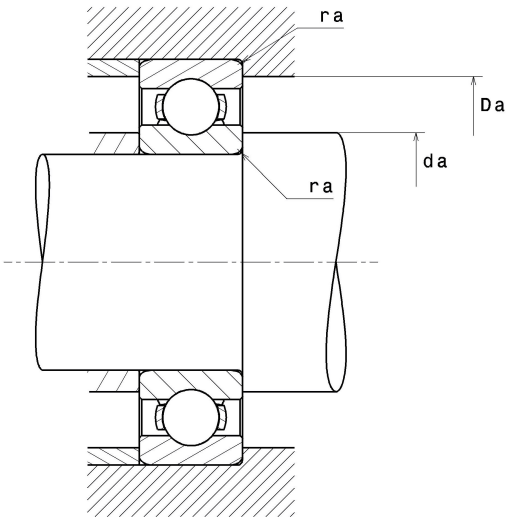
PDF technical sheet
6024C3

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

Product definition	
d	4.7244 "
D	7.0866 "
B	1.1024 "
d1	5.2598 "
D1	6.5512 "
rs min	0.0787 "
Radial clearance class	C3
Mass	7.41 oz
Brand	SNR



Product performance	
Dynamic load, C	83.90 kN
Static load, C0	79.30 kN
Fatigue limit load, Cu	2.95 kN
f0	15.9
Nref	4,500 RPM
Nlim	5,900 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.10 Hz
Characteristic outer ring frequency, BPF0	6.59 Hz
Characteristic inner ring frequency, BPFI	8.41 Hz



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Code APE 2815 Z – Code NACE 28.15

Abutment dimensions	
da min	5.0787 "
Da max	6.7323 "
ra max	0.0787 "

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