

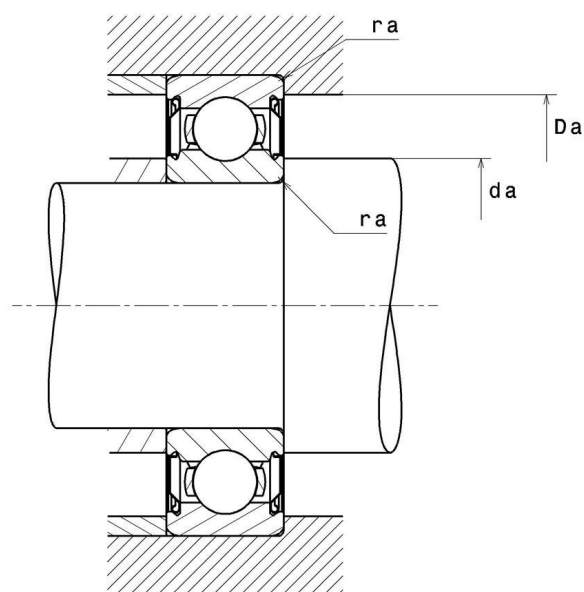
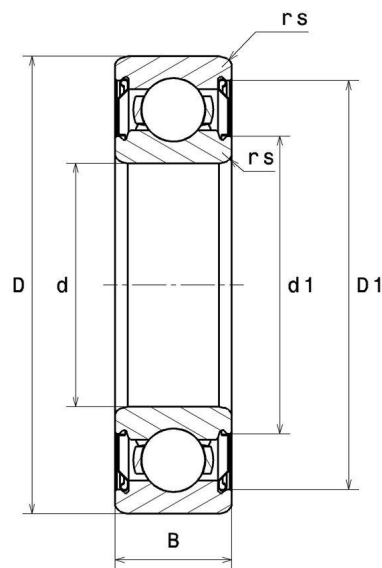
Technical data

6212ZZ

Single row deep groove ball bearings

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

VISUAL (S)



PRODUCT DIMENSIONS

Internal diameter d	60 mm
External diameter D	110 mm
Bearing/Inner ring width(B)	22 mm
External diameter inner ring d1	73,4 mm
Inner diameter outer ring D1	97,6 mm
Min fillet radius rs	1,5 mm
Radial clearance class	CN
Mass	0,785 kg
Brand	SNR

PRODUCT PERFORMANCE

Dynamic load, C	51,6 kN
Static load, C0	36 kN
Fatigue limit load, Cu	1,64 kN
Coefficient f0	14.3
Reference thermal speed (Nref)	6800 tr/min
Mechanical Limit Speed Nlim	7800 tr/min
Min operating temperature, Tmin	-30 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.407 Hz
Characteristic rolling element frequency, BSF	5.168 Hz
Characteristic outer ring frequency, BPF0	4.066 Hz
Characteristic inner ring frequency, BRF0	5.934 Hz

ABUTMENT

Min shoulder diameter IR da min	68 mm
Max shoulder diameter IR da max	73,4 mm
Max shoulder diameter OR Da max	102 mm
Max shaft & housing fillet radius ra max	1,5 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$\frac{f_0 F_a}{C_0}$	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

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

If $P_0 < F_r$, then use $P_0 = F_r$