



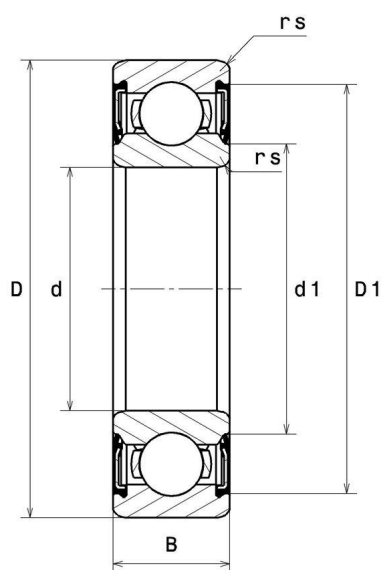
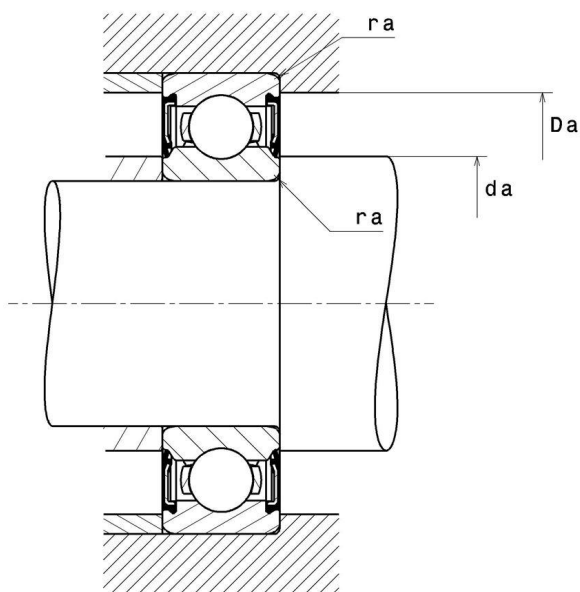
Technical data

6315EEC3

Single row deep groove ball bearings

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

VISUAL (S)



6315EEC3

Single row deep groove ball bearings

PRODUCT DIMENSIONS

Internal diameter d	75 mm
External diameter D	160 mm
Bearing/Inner ring width(B)	37 mm
External diameter inner ring d1	94 mm
Inner diameter outer ring D1	140,9 mm
Min fillet radius rs	2,1 mm
Radial clearance class	C3
Mass	3,12 kg
Brand	SNR

PRODUCT PERFORMANCE

Dynamic load, C	113 kN
Static load, C0	77,2 kN
Fatigue limit load, Cu	3,25 kN
Coefficient f0	13.2
Mechanical Limit Speed Nlim	3000 tr/min
Min operating temperature, Tmin	-30 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.385 Hz
Characteristic rolling element frequency, BSF	4.124 Hz
Characteristic outer ring frequency, BPF0	3.081 Hz
Characteristic inner ring frequency, BRF0	4.919 Hz

ABUTMENT

Min shoulder diameter IR da min	86 mm
Max shoulder diameter IR da max	94 mm
Max shoulder diameter OR Da max	149 mm
Max shaft & housing fillet radius ra max	2 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 $P_0 = F_r$