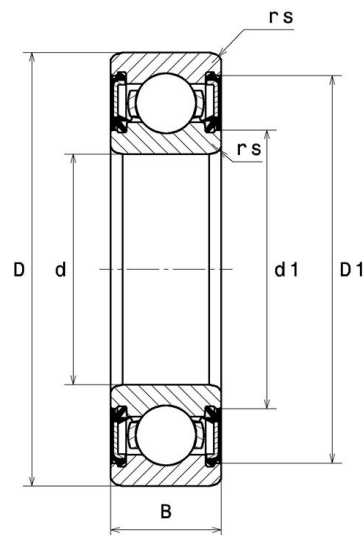
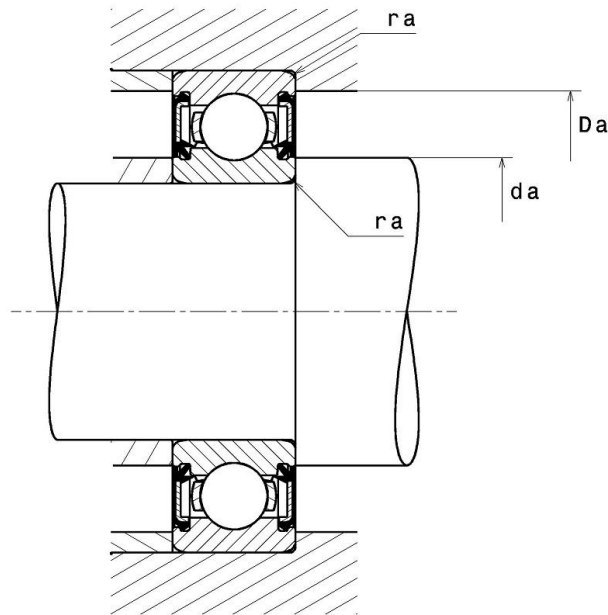


Technical data

6305EEC3

Single row deep groove ball bearings

VISUAL (S)



6305EEC3

Single row deep groove ball bearings

PRODUCT DIMENSIONS

Internal diameter d	25 mm
External diameter D	62 mm
Bearing/Inner ring width(B)	17 mm
External diameter inner ring d1	34 mm
Inner diameter outer ring D1	53,2 mm
Min fillet radius rs	1,1 mm
Radial clearance class	C3
Mass	0,235 kg
Brand	SNR

PRODUCT PERFORMANCE

Dynamic load, C	22,2 kN
Static load, C0	11,5 kN
Fatigue limit load, Cu	0,52 kN
Coefficient f0	12.4
Mechanical Limit Speed Nlim	8600 tr/min
Min operating temperature, Tmin	-30 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.368 Hz
Characteristic rolling element frequency, BSF	3.515 Hz
Characteristic outer ring frequency, BPF0	2.574 Hz
Characteristic inner ring frequency, BPFI	4.426 Hz

ABUTMENT

Min shoulder diameter IR da min	31,5 mm
Max shoulder diameter IR da max	34 mm
Max shoulder diameter OR Da max	55,5 mm
Max shaft & housing fillet radius ra max	1 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 $P_0 = F_r$