

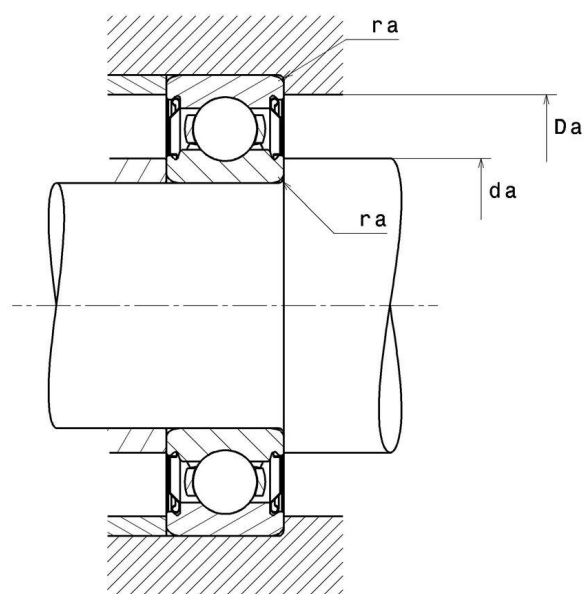
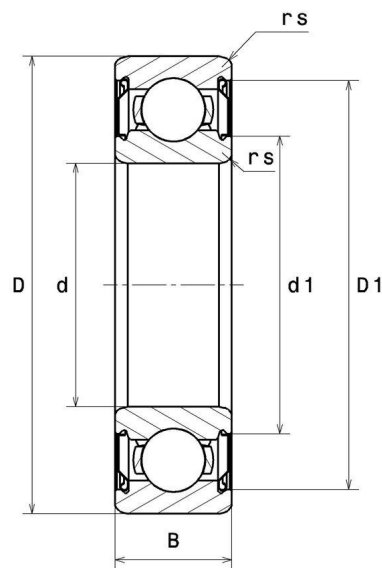
Technical data

6005ZZ

Single row deep groove ball bearings

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

VISUAL (S)



6005ZZ

Single row deep groove ball bearings

PRODUCT DIMENSIONS

Internal diameter d	25 mm
External diameter D	47 mm
Bearing/Inner ring width(B)	12 mm
External diameter inner ring d1	30,2 mm
Inner diameter outer ring D1	42 mm
Min fillet radius rs	0,6 mm
Radial clearance class	CN
Mass	0,083 kg
Brand	SNR

PRODUCT PERFORMANCE

Dynamic load, C	9,8 kN
Static load, C0	5,9 kN
Fatigue limit load, Cu	0,27 kN
Coefficient f0	14.5
Reference thermal speed (Nref)	15000 tr/min
Mechanical Limit Speed Nlim	20000 tr/min
Min operating temperature, Tmin	-30 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.412 Hz
Characteristic rolling element frequency, BSF	5.493 Hz
Characteristic outer ring frequency, BPF0	4.118 Hz
Characteristic inner ring frequency, BPFI	5.882 Hz

ABUTMENT

Min shoulder diameter IR da min	29 mm
Max shoulder diameter IR da max	30,2 mm
Max shoulder diameter OR Da max	43 mm
Max shaft & housing fillet radius ra max	0,6 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 $P_0 = F_r$