



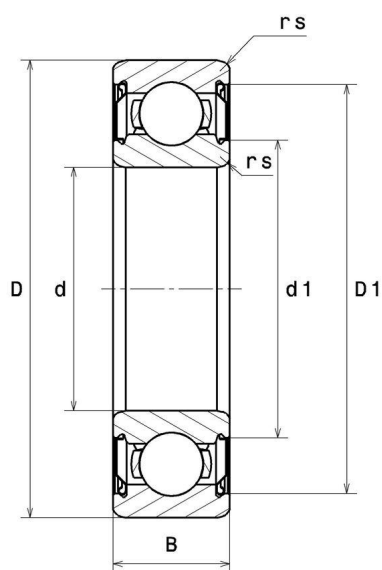
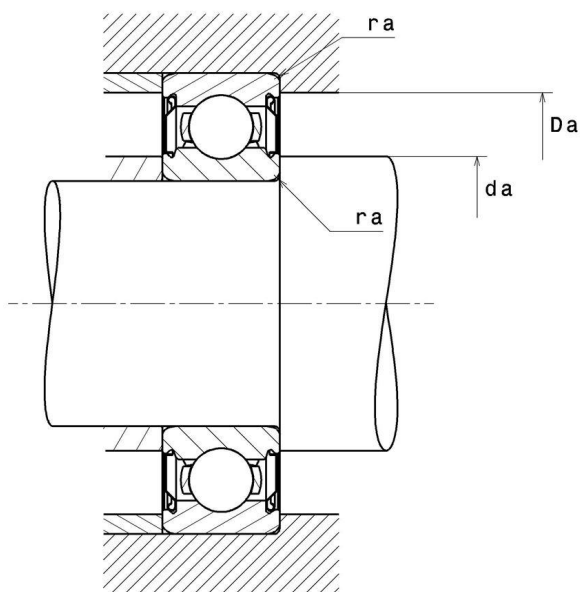
## Technical data

**6020ZZ**

Single row deep groove ball bearings

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

### VISUAL (S)



# 6020ZZ

Single row deep groove ball bearings

## PRODUCT DIMENSIONS

Internal diameter d	100 mm
External diameter D	150 mm
Bearing/Inner ring width(B)	24 mm
External diameter inner ring d1	110,5 mm
Inner diameter outer ring D1	139,1 mm
Min fillet radius rs	1,5 mm
Radial clearance class	CN
Brand	SNR

## PRODUCT PERFORMANCE

Dynamic load, C	59,4 kN
Static load, C0	54,2 kN
Fatigue limit load, Cu	2,2 kN
Coefficient f0	15.9
Nlim (grease)	4000 tr/min
Reference thermal speed (Nref)	5100 tr/min
Mechanical Limit Speed Nlim	5700 tr/min
Min operating temperature, Tmin	-30 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.168 Hz
Characteristic outer ring frequency, BPF0	6.595 Hz
Characteristic inner ring frequency, BRF0	8.405 Hz

## ABUTMENT

Min shoulder diameter IR da min	108 mm
Max shoulder diameter IR da max	110,5 mm
Max shoulder diameter OR Da max	142 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  $P_0 = F_r$