

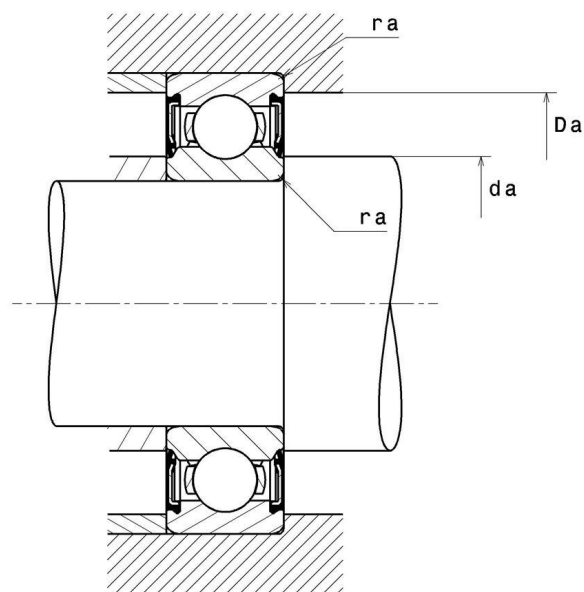
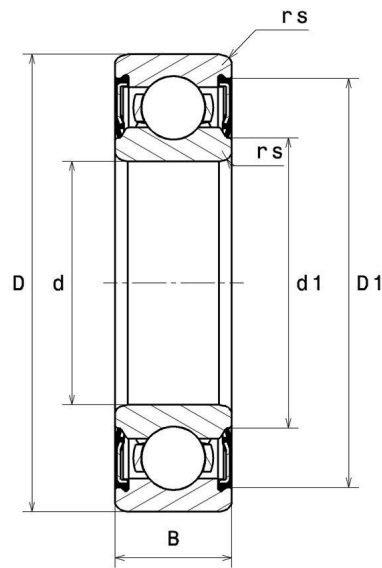
Technical data

62200EE

Single row deep groove ball bearings

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

VISUAL (S)



62200EE

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	10 mm
D - External diameter	30 mm
B - Bearing/Inner ring width	14 mm
d1 - External diameter inner ring	16 mm
D1 - Inner diameter outer ring	25,8 mm
rs - Min fillet radius	0,6 mm
Radial clearance class	CN
Mass	0,048 kg

PRODUCT PERFORMANCE

C - Dynamic load	6,3 kN
C0 - Static load	2,6 kN
Cu - Fatigue limit load	0,12 kN
f0 - Coefficient	12.1
Nlim - Mechanical Limit Speed	18000 tr/min
Tmin - Min operating temperature	-30 °C
Tmax - Max operating temperature	120 °C

BEARING FREQUENCIES

BPFO - Characteristic outer ring frequency (60 rpm)	2.528 Hz
BPFI - Characteristic inner ring frequency (60 rpm)	4.472 Hz
FTF - Characteristic cage frequency (60 rpm)	0.361 Hz
BSF - Characteristic rolling element frequency (60 rpm)	3.322 Hz

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ABUTMENT

da min - Min shoulder diameter IR	14 mm
da max - Max shoulder diameter IR	86 mm
Da max - Max shoulder diameter OR	26 mm
ra max - Max shaft & housing fillet radius	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 $P_0 = F_r$