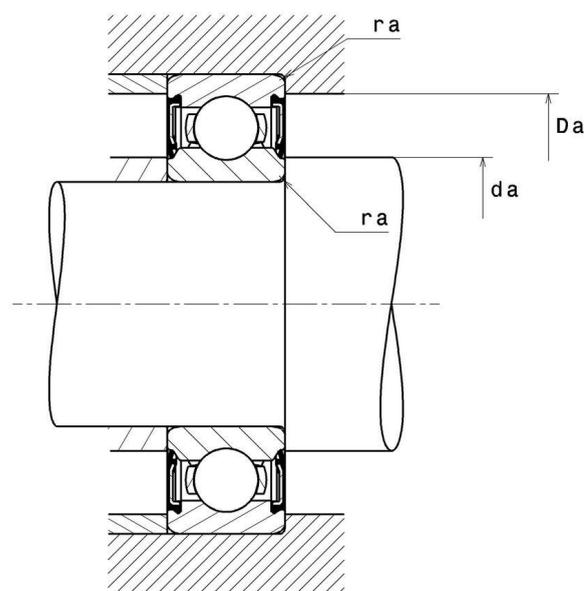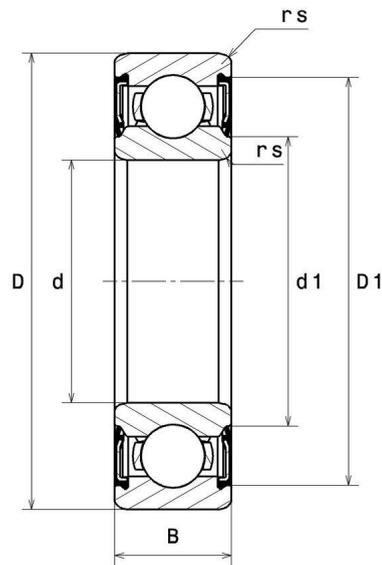# Technical data

62201EE
Single row deep groove ball bearings

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

VISUAL (S)

NTN Europe
1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00
S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

Page 1/3

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PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	12 mm
D - External diameter	32 mm
B - Bearing/Inner ring width	14 mm
d1 - External diameter inner ring	18,3 mm
D1 - Inner diameter outer ring	27,9 mm
rs - Min fillet radius	0,6 mm
Radial clearance class	CN
Mass	0,051 kg

PRODUCT PERFORMANCE	
C - Dynamic load	7300000 mN
C0 - Static load	3100000 mN
Cu - Fatigue limit load	140000 mN
f0 - Coefficient	12.2
N lim - Mechanical Limit Speed	96000 °/s
Tmin - Min operating temperature	243,15 °K
Tmax - Max operating temperature	393,15 °K

BEARING FREQUENCIES	
BPFO - Over rolling frequency on outer ring (60 rpm)	2.545 Hz
BPFI - Over rolling frequency on inner (60 rpm)	4.455 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	3.394 Hz
BRF - Rotational frequency – rolling element (60 rpm)	1.697 Hz
FTF - Rotational frequency - cage (60 rpm)	0.364 Hz

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ABUTMENT

da min - Min shoulder diameter IR	16 mm
da max - Max shoulder diameter IR	18,3 mm
Da max - Max shoulder diameter OR	28 mm
ra max - Max shaft & housing fillet radius	0,6 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$\dfrac{f_0 F_a}{C_0}$	e	$Fa/Fr \leq e$		$Fa/Fr > e$	
		X	Y	X	Y
0.172	0.19				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	0	0.56	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

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If Po <Fr, then use Po = Fr