



Brand of NTN corporation

Technical data

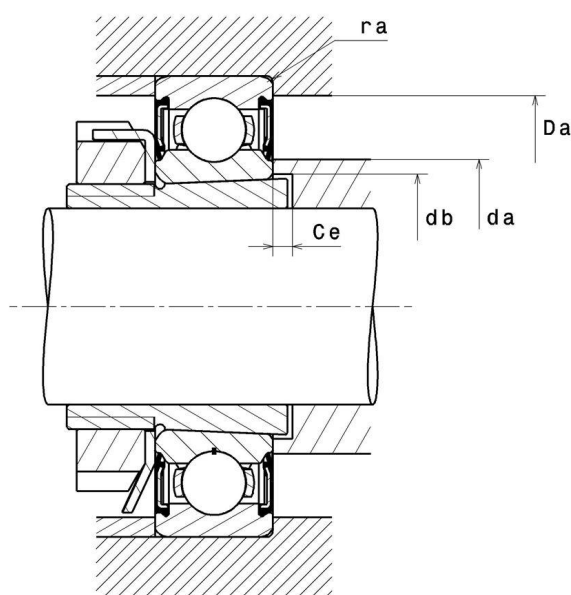
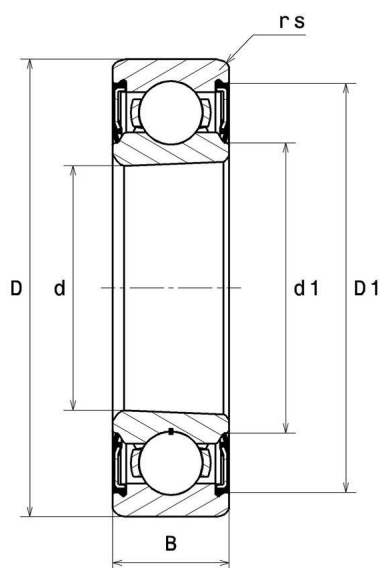
6211KEEC3

Single row deep groove ball bearings



Deep groove ball bearing, radial contact, pressed steel cage, tapered bore, 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

PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	55 mm
D - External diameter	100 mm
B - Bearing/Inner ring width	21 mm
d1 - External diameter inner ring	65,4 mm
D1 - Inner diameter outer ring	90,9 mm
rs - Min fillet radius	1,5 mm
Associated sleeve reference	H211
Radial clearance class	C3
Mass	0,604 kg

PRODUCT PERFORMANCE

C - Dynamic load	45700000 mN
C0 - Static load	29300000 mN
Cu - Fatigue limit load	1330000 mN
f0 - Coefficient	14.3
N lim - Mechanical Limit Speed	26400 °/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)	4.078 Hz
BPFI - Over rolling frequency on inner (60 rpm)	5.922 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	5.24 Hz
BRF - Rotational frequency - rolling element (60 rpm)	2.62 Hz



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BEARING FREQUENCIES

FTF - Rotational frequency - cage (60 rpm)

0.408 Hz

ABUTMENT

da min - Min shoulder diameter IR

63 mm

da max - Max shoulder diameter IR

65,4 mm

db - Min diameter for Sleeve

60 mm

Ce - Min length fro Sleeve

6 mm

Da max - Max shoulder diameter OR

92 mm

ra max - Max shaft & housing fillet radius

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 $P_0 = F_r$ **NTN Europe**

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