



Brand of **NTN** corporation

Technical data

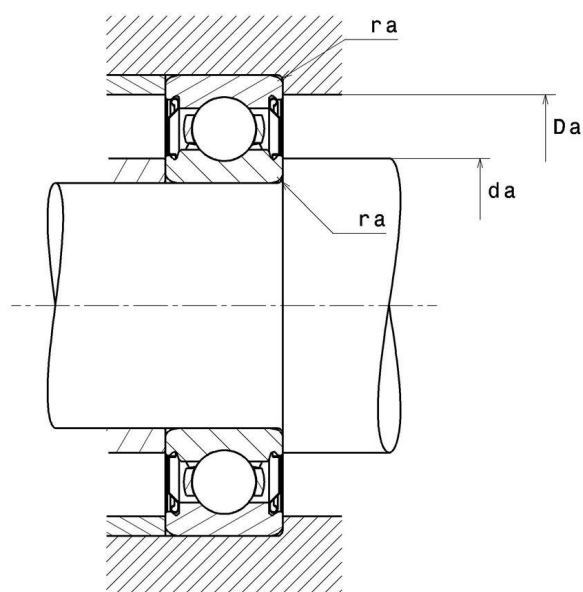
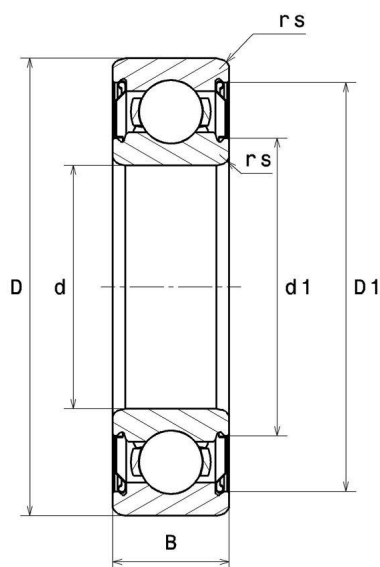
6212.ZZC3

Single row deep groove ball bearings



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

VISUAL (S)



NTN Europe

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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	60 mm
D - External diameter	110 mm
B - Bearing/Inner ring width	22 mm
d1 - External diameter inner ring	73,2 mm
D1 - Inner diameter outer ring	97,6 mm
rs - Min fillet radius	1,5 mm
Radial clearance class	C3
Mass	0,78 kg

PRODUCT PERFORMANCE

C - Dynamic load	55300000 mN
C0 - Static load	36000000 mN
Cu - Fatigue limit load	1640000 mN
f0 - Coefficient	14.3
N ref - Reference thermal speed	40800 °/s
N lim - Mechanical Limit Speed	46800 °/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)	4.066 Hz
BPFI - Over rolling frequency on inner (60 rpm)	5.934 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	5.168 Hz
BRF - Rotational frequency - rolling element (60 rpm)	2.584 Hz



BEARING FREQUENCIES

FTF - Rotational frequency - cage (60 rpm)

0.407 Hz

ABUTMENT

da min - Min shoulder diameter IR

68 mm

da max - Max shoulder diameter IR

73,2 mm

Da max - Max shoulder diameter OR

102 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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