



Brand of NTN corporation

Technical data

6212F604

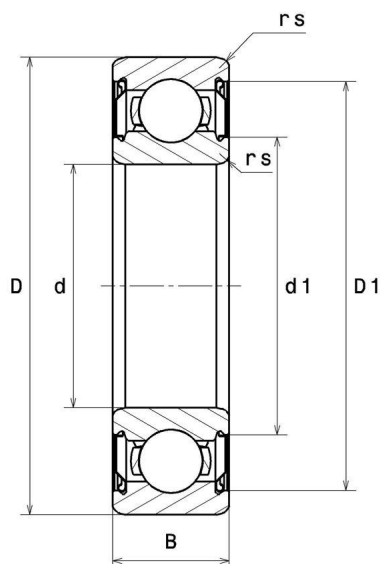
Single row deep groove ball bearings



TOPLINE deep groove ball bearing, radial contact, pressed steel cage, shields on both sides, applications up to 350°C.

TOPLINE

VISUAL (S)

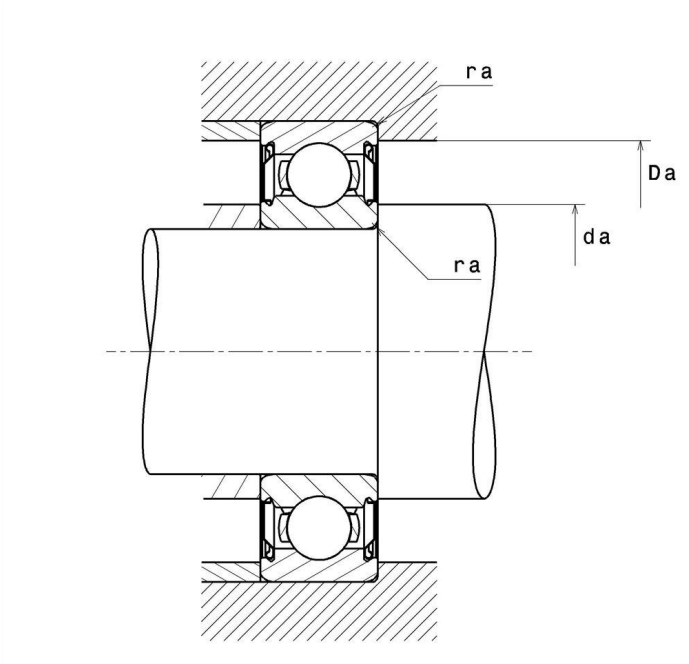


NTN Europe

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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

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Single row deep groove ball bearings



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	72,7 mm
D1 - Inner diameter outer ring	101,3 mm
rs - Min fillet radius	1,5 mm
Radial clearance class	> C5
Mass	0,731 kg

PRODUCT PERFORMANCE	
C0 - Static load	36300000 mN
f0 - Coefficient	14.4
N lim - Mechanical Limit Speed	300 °/s

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PRODUCT PERFORMANCE

Tmin - Min operating temperature	243,15 °K
Tmax - Max operating temperature	623,15 °K

BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	4.088 Hz
BPFI - Over rolling frequency on inner (60 rpm)	5.912 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	5.298 Hz
BRF - Rotational frequency - rolling element (60 rpm)	2.649 Hz
FTF - Rotational frequency - cage (60 rpm)	0.409 Hz

ABUTMENT

da min - Min shoulder diameter IR	68 mm
da max - Max shoulder diameter IR	72,7 mm
Da max - Max shoulder diameter OR	102 mm
ra max - Max shaft & housing fillet radius	1,5 mm



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INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$\frac{f_0 F_a}{C_0}$	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

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If $P_0 < Fr$, then use $P_0 = Fr$

