



Brand of NTN corporation

Technical data

6212F600

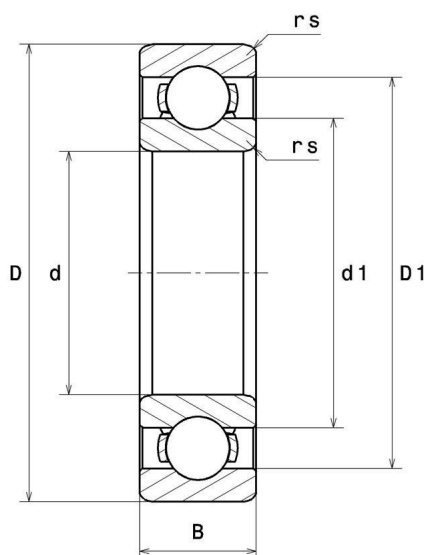
Single row deep groove ball bearings



TOPLINE deep groove ball bearing, radial contact, pressed steel cage, open, applications up to 350°C.

TOPLINE

VISUAL (S)

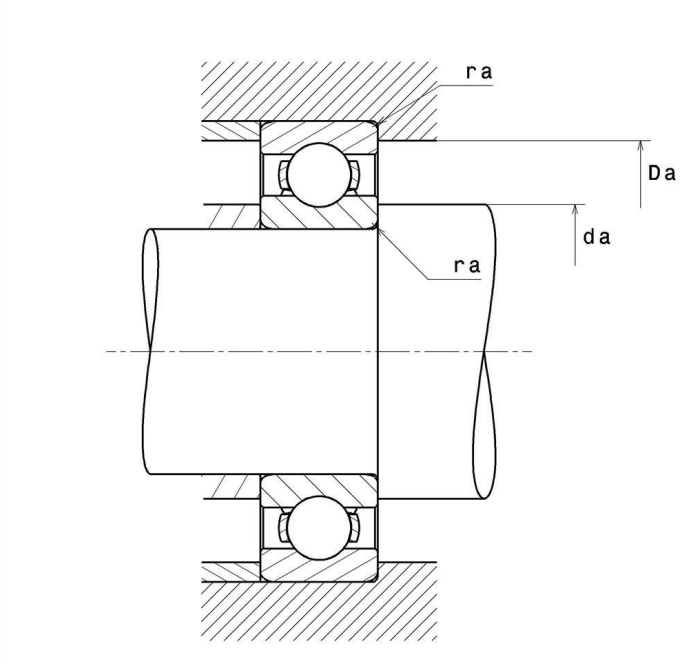


NTN Europe

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

6212F600

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

6212F600

Single row deep groove ball bearings

PRODUCT PERFORMANCE

Tmin - Min operating temperature	233,15 °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 OR	102 mm
ra max - Max shaft & housing fillet radius	1,5 mm



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

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 $P_0 = Fr$

