



Brand of NTN corporation

Technical data

6007F604

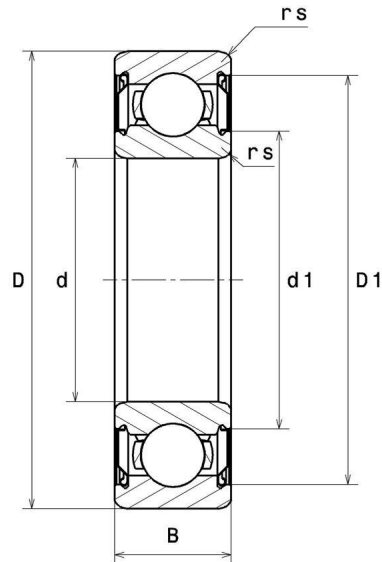
Single row deep groove ball bearings



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

TOPLINE

VISUAL (S)

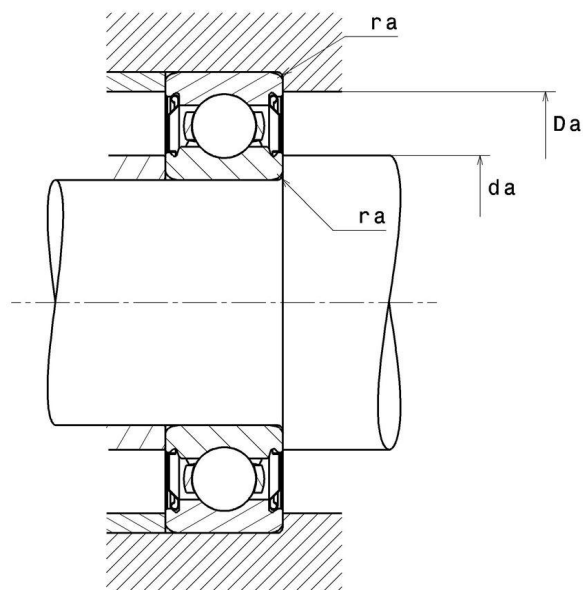


NTN Europe

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

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Single row deep groove ball bearings



PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	35 mm
D - External diameter	62 mm
B - Bearing/Inner ring width	14 mm
d1 - External diameter inner ring	43,5 mm
D1 - Inner diameter outer ring	55,9 mm
rs - Min fillet radius	1 mm
Radial clearance class	> C5
Mass	0,151 kg

PRODUCT PERFORMANCE

C0 - Static load	10300000 mN
f0 - Coefficient	14.8
N lim - Mechanical Limit Speed	540 °/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)	4.6 Hz
BPFI - Over rolling frequency on inner (60 rpm)	6.4 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	5.946 Hz
BRF - Rotational frequency - rolling element (60 rpm)	2.973 Hz
FTF - Rotational frequency - cage (60 rpm)	0.418 Hz

ABUTMENT

da min - Min shoulder diameter IR	40 mm
Da max - Max shoulder diameter OR	57 mm
ra max - Max shaft & housing fillet radius	1 mm



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INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X \cdot Fr + Y \cdot Fa$$

$\frac{f_0 F_a}{C_0}$	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

$$P_0 = X_0 \cdot Fr + Y_0 \cdot Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

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

