



Brand of NTN corporation

Technical data

6004F604

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)

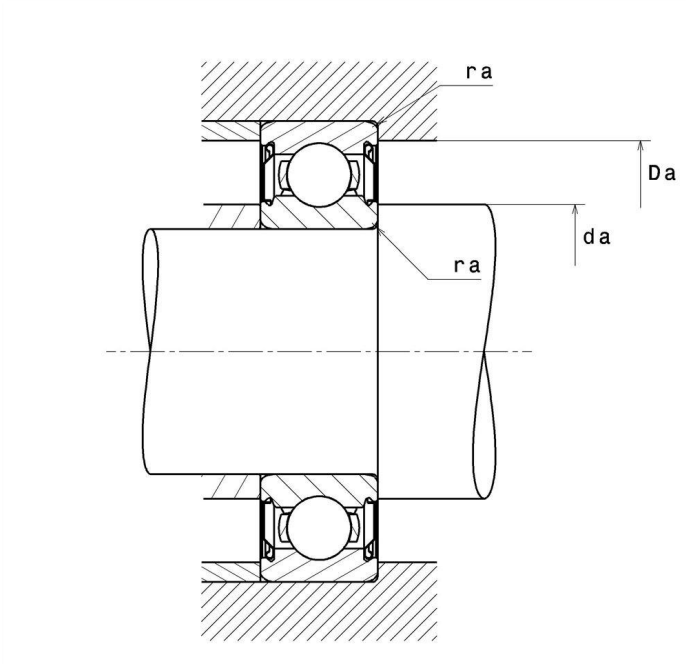


NTN Europe

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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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PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	20 mm
D - External diameter	42 mm
B - Bearing/Inner ring width	12 mm
d1 - External diameter inner ring	27,5 mm
D1 - Inner diameter outer ring	37,6 mm
rs - Min fillet radius	0,6 mm
Radial clearance class	> C5
Mass	0,07 kg

PRODUCT PERFORMANCE	
C0 - Static load	5000000 mN
f0 - Coefficient	13.8
N lim - Mechanical Limit Speed	840 °/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)	3.578 Hz
BPFI - Over rolling frequency on inner (60 rpm)	5.422 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	4.677 Hz
BRF - Rotational frequency - rolling element (60 rpm)	2.339 Hz
FTF - Rotational frequency - cage (60 rpm)	0.398 Hz

ABUTMENT

da min - Min shoulder diameter IR	24 mm
da max - Max shoulder diameter IR	27,5 mm
Da max - Max shoulder diameter OR	38 mm
ra max - Max shaft & housing fillet radius	0,6 mm



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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 $P_0 = F_r$

