



Brand of NTN corporation

Technical data

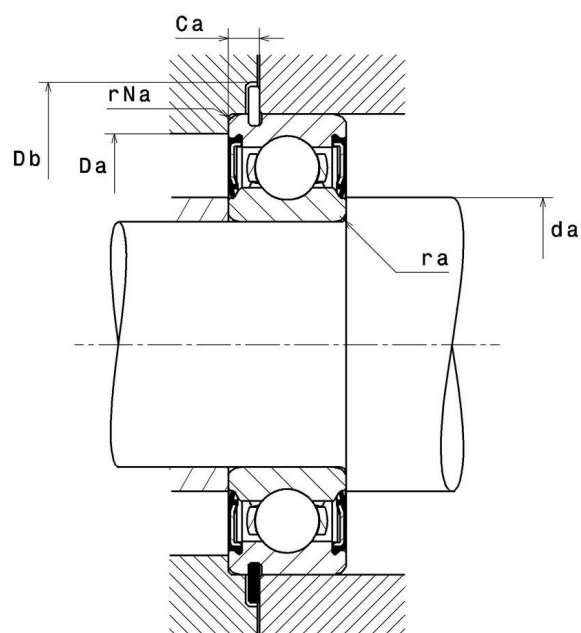
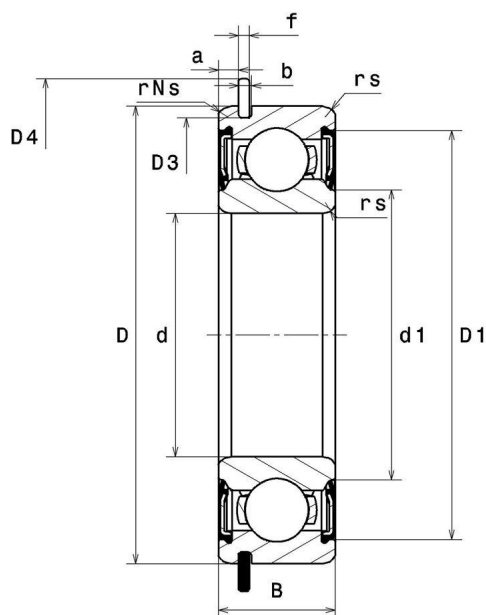
6006NREE

Single row deep groove ball bearings



Deep groove ball bearing, radial contact, pressed steel cage, snap ring & groove on outer diameter, contact seals 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	30 mm
D - External diameter	55 mm
B - Bearing/Inner ring width	13 mm
d1 - External diameter inner ring	38,2 mm
D1 - Inner diameter outer ring	49,5 mm
a min - Min position Groove	1,88 mm
a max - Max position groove	2,08 mm
Ca min - Mini segment position	2,9 mm
Ca max - Max segment position	3,2 mm
rs - Min fillet radius	1 mm
rNs - Min fillet radius	0,5 mm
D3 - Max bottom groove diameter	52,6 mm
b min - Min groove width	1,35 mm
b max - Max groove width	1,65 mm
r0 max - Max bottom groove radius	0,4 mm
D4 max - Max outer diameter of assembled stop ring	60,7 mm
f - Stop ring thickness	1,07 mm
Snap ring reference	R55
Radial clearance class	CN
Mass	0,116 kg

PRODUCT PERFORMANCE	
C - Dynamic load	13900000 mN



PRODUCT PERFORMANCE

C0 - Static load	8300000 mN
Cu - Fatigue limit load	380000 mN
f0 - Coefficient	14.8
N lim - Mechanical Limit Speed	45000 °/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)	4.58 Hz
BPFI - Over rolling frequency on inner (60 rpm)	6.42 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	5.81 Hz
BRF - Rotational frequency - rolling element (60 rpm)	2.905 Hz
FTF - Rotational frequency - cage (60 rpm)	0.416 Hz

ABUTMENT

da min - Min shoulder diameter IR	35 mm
da max - Max shoulder diameter IR	63,7 mm
Da max - Max shoulder diameter OR	50 mm
ra max - Max shaft & housing fillet radius	1 mm
rNa max - Max fillet radius on segment side	0,5 mm
Db min - Min stop ring position diameter	61,5 mm



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

$$Po = X_0.Fr + Y_0.Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If $Po \leq Fr$, then use $Po = Fr$