

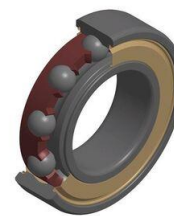


Brand of NTN corporation

Technical data

6006HVZZ

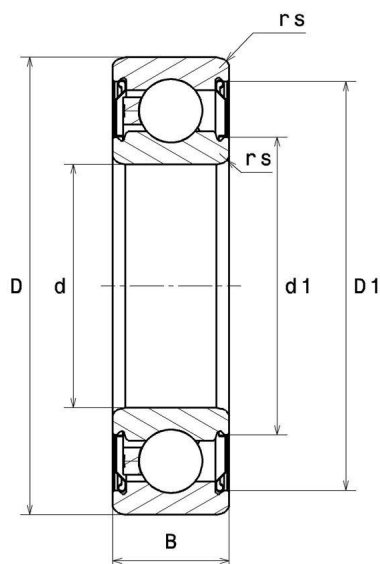
Single row deep groove ball bearings



TOPLINE deep groove ball bearing, radial contact, pressed polyamide cage, shields on both sides, for high speed applications

TOPLINE

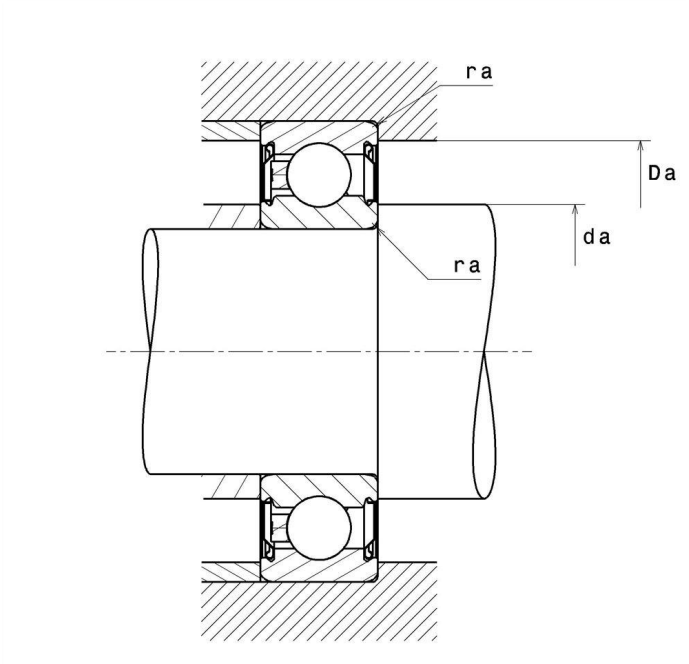
VISUAL (S)



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
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6006HVZZ
Single row deep groove ball bearings



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
rs - Min fillet radius	1 mm
Radial clearance class	C3
Mass	0,116 kg

PRODUCT PERFORMANCE

C - Dynamic load	13900000 mN
C0 - Static load	8300000 mN
Cu - Fatigue limit load	380000 mN



PRODUCT PERFORMANCE

f0 - Coefficient	14.8
N lim - Mechanical Limit Speed	126000 %/s
Tmin - Min operating temperature	223,15 °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	38,2 mm
Da max - Max shoulder diameter OR	50 mm
ra max - Max shaft & housing fillet radius	1 mm



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 $P_0 = F_r$

