

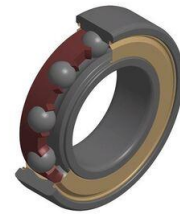


Brand of NTN corporation

Technical data

6008HVZZ

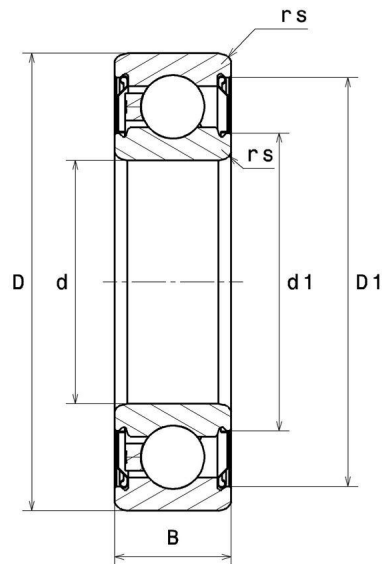
Single row deep groove ball bearings



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

TOPLINE

VISUAL (S)

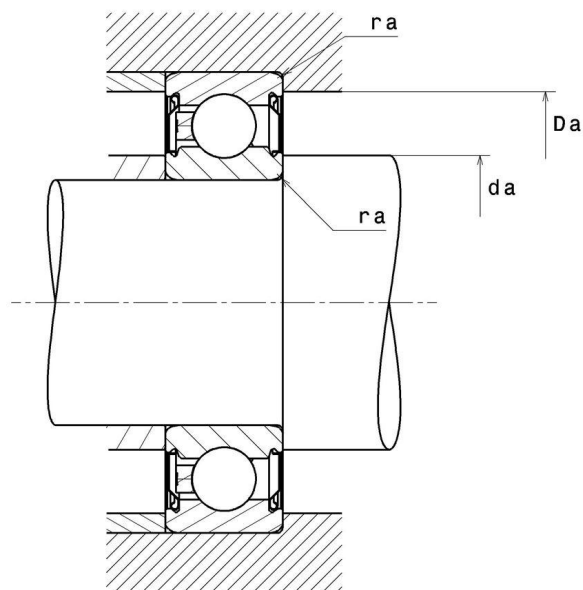


NTN Europe

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

6008HVZZ

Single row deep groove ball bearings



PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	40 mm
D - External diameter	68 mm
B - Bearing/Inner ring width	15 mm
d1 - External diameter inner ring	48,9 mm
D1 - Inner diameter outer ring	62,1 mm
rs - Min fillet radius	1 mm
Radial clearance class	C3
Mass	0,192 kg

PRODUCT PERFORMANCE

C - Dynamic load	17700000 mN
C0 - Static load	11500000 mN
Cu - Fatigue limit load	520000 mN



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

6008HVZZ

Single row deep groove ball bearings

PRODUCT PERFORMANCE

f0 - Coefficient	15.3
N lim - Mechanical Limit Speed	102000 %/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)	5.121 Hz
BPFI - Over rolling frequency on inner (60 rpm)	6.879 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	6.681 Hz
BRF - Rotational frequency - rolling element (60 rpm)	3.341 Hz
FTF - Rotational frequency - cage (60 rpm)	0.427 Hz

ABUTMENT

da min - Min shoulder diameter IR	45 mm
da max - Max shoulder diameter IR	48,9 mm
Da max - Max shoulder diameter OR	63 mm
ra max - Max shaft & housing fillet radius	1 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

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

$\frac{f_0 F_a}{C_0}$	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 $P_0 = Fr$

