

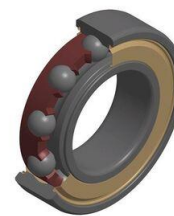


Brand of **NTN corporation**

Technical data

6208HVZZ

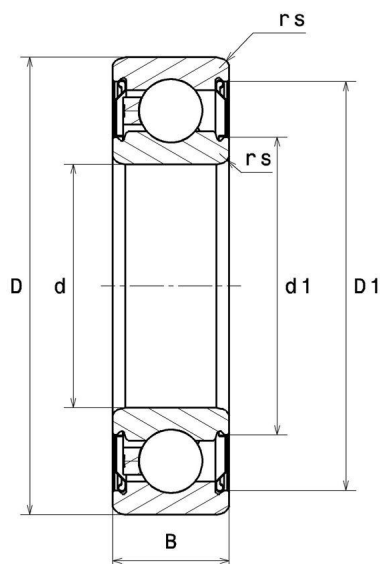
Single row deep groove ball bearings



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

TOPLINE

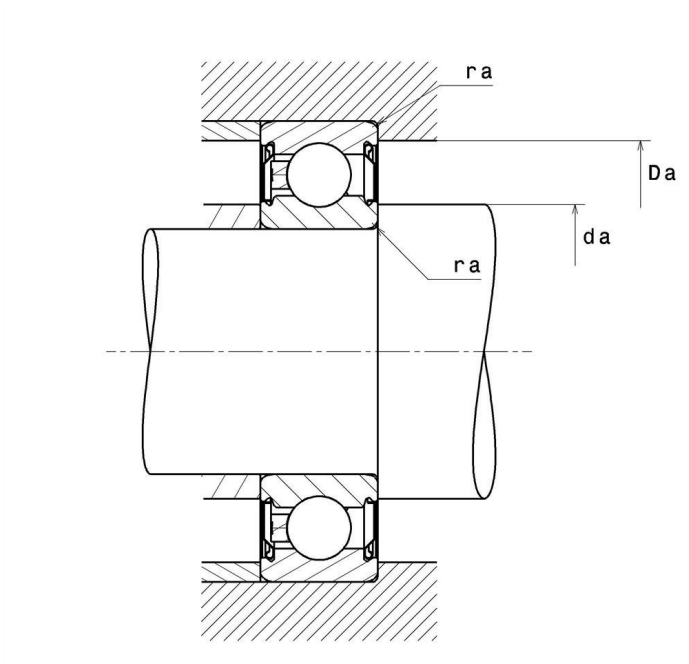
VISUAL (S)



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
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

6208HVZZ
Single row deep groove ball bearings



PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	40 mm
D - External diameter	80 mm
B - Bearing/Inner ring width	18 mm
d1 - External diameter inner ring	50,3 mm
D1 - Inner diameter outer ring	70,4 mm
rs - Min fillet radius	1,1 mm
Radial clearance class	C3
Mass	0,364 kg

PRODUCT PERFORMANCE

C - Dynamic load	30700000 mN
C0 - Static load	17900000 mN
Cu - Fatigue limit load	810000 mN



6208HVZZ

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PRODUCT PERFORMANCE

f0 - Coefficient	14
N lim - Mechanical Limit Speed	84000 °/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)	3.607 Hz
BPFI - Over rolling frequency on inner (60 rpm)	5.393 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	4.841 Hz
BRF - Rotational frequency - rolling element (60 rpm)	2.421 Hz
FTF - Rotational frequency - cage (60 rpm)	0.401 Hz

ABUTMENT

da min - Min shoulder diameter IR	46,5 mm
da max - Max shoulder diameter IR	50,3 mm
Da max - Max shoulder diameter OR	73,5 mm
ra max - Max shaft & housing fillet radius	1 mm



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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

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

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

