



Brand of NTN corporation

Technical data

6200FT150ZZ

Single row deep groove ball bearings



TOPLINE deep groove ball bearing, radial contact, pressed steel cage, shields on both sides, applications up to 150°C.

TOPLINE

VISUAL (S)

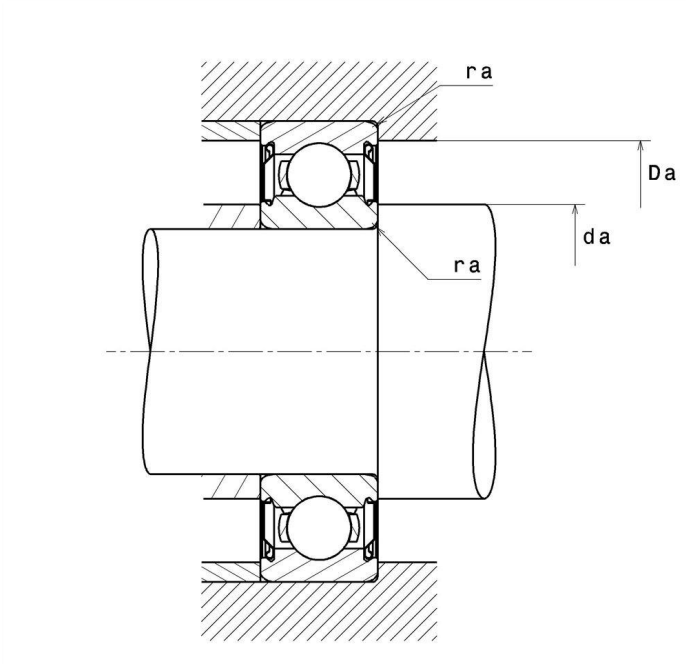


NTN Europe

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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

6200FT150ZZ

Single row deep groove ball bearings



PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	10 mm
D - External diameter	30 mm
B - Bearing/Inner ring width	9 mm
d1 - External diameter inner ring	16 mm
D1 - Inner diameter outer ring	25,7 mm
rs - Min fillet radius	0,6 mm
Radial clearance class	C3
Mass	0,033 kg

PRODUCT PERFORMANCE	
C - Dynamic load	6300000 mN
C0 - Static load	2600000 mN
Cu - Fatigue limit load	120000 mN

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PRODUCT PERFORMANCE

f0 - Coefficient	12.1
N lim - Mechanical Limit Speed	150000 %/s
Tmin - Min operating temperature	243,15 °K
Tmax - Max operating temperature	423,15 °K

BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	2.528 Hz
BPFI - Over rolling frequency on inner (60 rpm)	4.472 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	3.322 Hz
BRF - Rotational frequency - rolling element (60 rpm)	1.661 Hz
FTF - Rotational frequency - cage (60 rpm)	0.361 Hz

ABUTMENT

da min - Min shoulder diameter IR	14 mm
da max - Max shoulder diameter IR	16 mm
Da max - Max shoulder diameter OR	26 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 $P_0 = F_r$

