



Brand of NTN corporation

Technical data

6300FT150ZZ

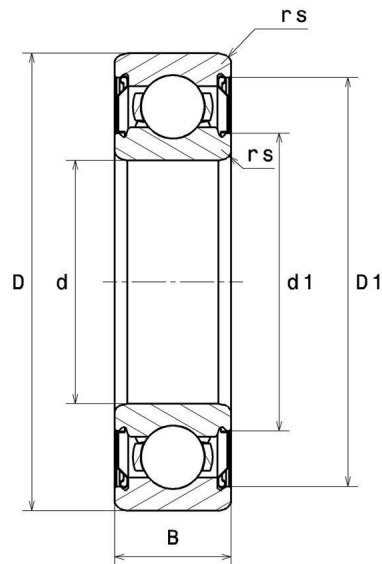
Single row deep groove ball bearings



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

TOPLINE

VISUAL (S)

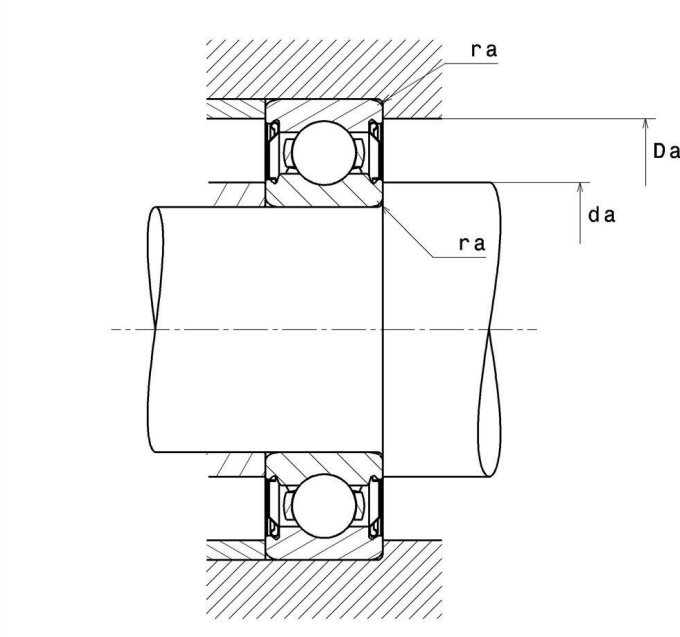


NTN Europe

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

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PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	10 mm
D - External diameter	35 mm
B - Bearing/Inner ring width	11 mm
d1 - External diameter inner ring	15,4 mm
D1 - Inner diameter outer ring	29,5 mm
rs - Min fillet radius	0,6 mm
Radial clearance class	C3
Mass	0,053 kg

PRODUCT PERFORMANCE

C - Dynamic load	8500000 mN
C0 - Static load	3450000 mN
Cu - Fatigue limit load	160000 mN



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PRODUCT PERFORMANCE

f0 - Coefficient	11.2
N lim - Mechanical Limit Speed	132000 %/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)	2.047 Hz
BPFI - Over rolling frequency on inner (60 rpm)	3.953 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	2.832 Hz
BRF - Rotational frequency - rolling element (60 rpm)	1.416 Hz
FTF - Rotational frequency - cage (60 rpm)	0.341 Hz

ABUTMENT

da min - Min shoulder diameter IR	14 mm
da max - Max shoulder diameter IR	15,4 mm
Da max - Max shoulder diameter OR	31 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 $P_0 = F_r$

