



Brand of NTN corporation

Technical data

6013FT150

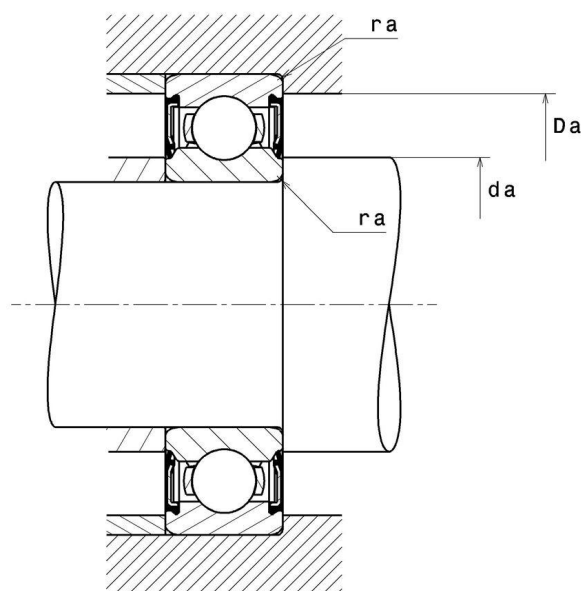
Single row deep groove ball bearings



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

TOPLINE

VISUAL (S)

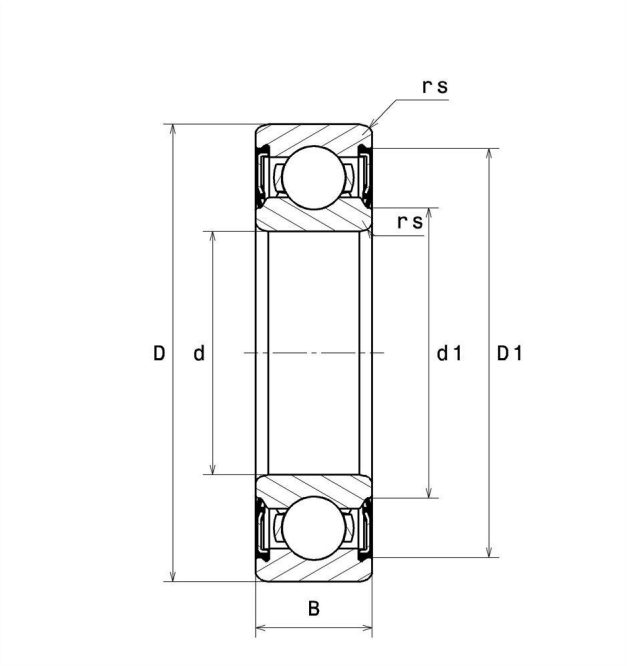


NTN Europe

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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

6013FT150

Single row deep groove ball bearings



PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	65 mm
D - External diameter	100 mm
B - Bearing/Inner ring width	18 mm
d1 - External diameter inner ring	75,2 mm
D1 - Inner diameter outer ring	92,4 mm
rs - Min fillet radius	1,1 mm
Radial clearance class	C3
Mass	0,43 kg

PRODUCT PERFORMANCE	
C - Dynamic load	32200000 mN
C0 - Static load	25200000 mN
Cu - Fatigue limit load	1150000 mN

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PRODUCT PERFORMANCE

f0 - Coefficient	15.8
N lim - Mechanical Limit Speed	22800 °/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)	6.562 Hz
BPFI - Over rolling frequency on inner (60 rpm)	8.438 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	7.87 Hz
BRF - Rotational frequency - rolling element (60 rpm)	3.935 Hz
FTF - Rotational frequency - cage (60 rpm)	0.437 Hz

ABUTMENT

da min - Min shoulder diameter IR	71,5 mm
da max - Max shoulder diameter IR	48,4 mm
Da max - Max shoulder diameter OR	93,5 mm
ra max - Max shaft & housing fillet radius	1 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 $P_0 = F_r$



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