



Brand of NTN corporation

Technical data

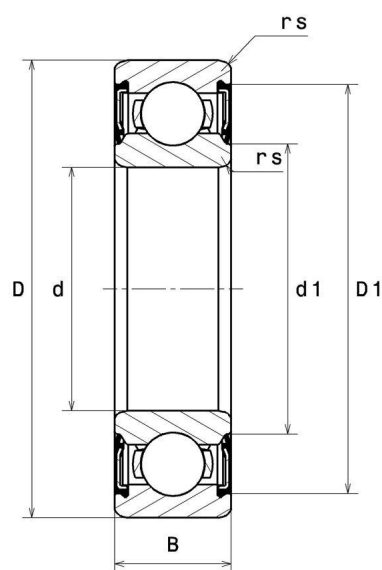
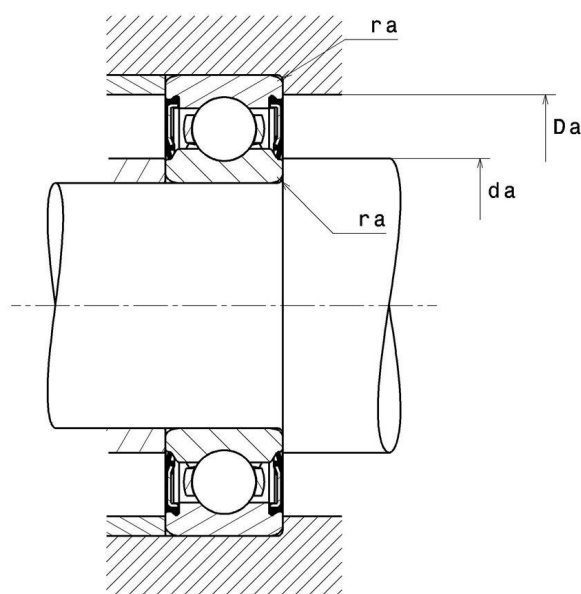
6019EE

Single row deep groove ball bearings



Deep groove ball bearing, radial contact, pressed steel cage, contact seals on both sides

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

PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	95 mm
D - External diameter	145 mm
B - Bearing/Inner ring width	24 mm
d1 - External diameter inner ring	107,7 mm
D1 - Inner diameter outer ring	135,8 mm
rs - Min fillet radius	1,5 mm
Radial clearance class	CN
Mass	1,22 kg

PRODUCT PERFORMANCE

C - Dynamic load	63600000 mN
C0 - Static load	54000000 mN
Cu - Fatigue limit load	2220000 mN
f0 - Coefficient	15.8
N lim - Mechanical Limit Speed	16200 °/s
Tmin - Min operating temperature	243,15 °K
Tmax - Max operating temperature	393,15 °K

BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	6.573 Hz
BPFI - Over rolling frequency on inner (60 rpm)	8.427 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	7.966 Hz
BRF - Rotational frequency - rolling element (60 rpm)	3.983 Hz
FTF - Rotational frequency - cage (60 rpm)	0.438 Hz



ABUTMENT

da min - Min shoulder diameter IR	103 mm
da max - Max shoulder diameter IR	107,7 mm
Da max - Max shoulder diameter OR	137 mm
ra max - Max shaft & housing fillet radius	1,5 mm

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 $P_0 = F_r$

