



Brand of NTN corporation

Technical data

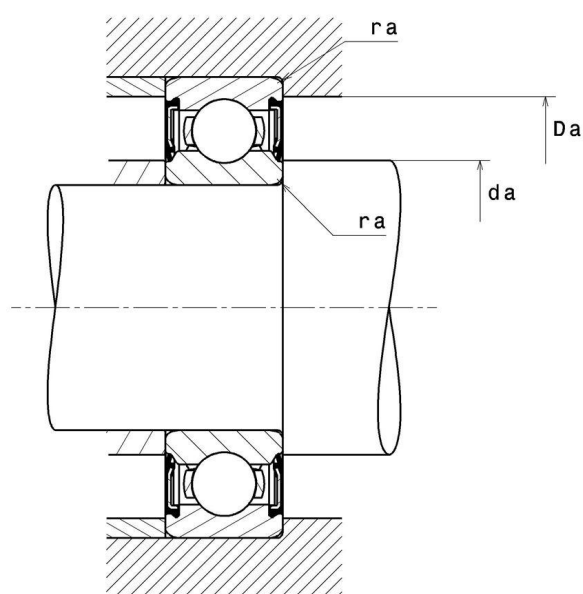
627EEC3

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	7 mm
D - External diameter	22 mm
B - Bearing/Inner ring width	7 mm
d1 - External diameter inner ring	11,2 mm
D1 - Inner diameter outer ring	19,1 mm
rs - Min fillet radius	0,3 mm
Radial clearance class	C3
Mass	0,013 kg

PRODUCT PERFORMANCE

C - Dynamic load	3450000 mN
C0 - Static load	1370000 mN
Cu - Fatigue limit load	60000 mN
f0 - Coefficient	12.4
N lim - Mechanical Limit Speed	156000 °/s
Tmin - Min operating temperature	253,15 °K
Tmax - Max operating temperature	393,15 °K

BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	2.574 Hz
BPFI - Over rolling frequency on inner (60 rpm)	4.426 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	3.515 Hz
BRF - Rotational frequency - rolling element (60 rpm)	1.758 Hz
FTF - Rotational frequency - cage (60 rpm)	0.368 Hz



ABUTMENT

da min - Min shoulder diameter IR	9 mm
da max - Max shoulder diameter IR	11,2 mm
Da max - Max shoulder diameter OR	20 mm
ra max - Max shaft & housing fillet radius	0,3 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 $P_0 = F_r$

