SNR
Brand of **NTN corporation**

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

VISUAL (S)
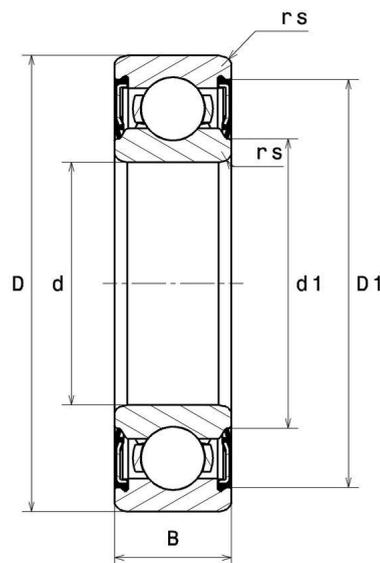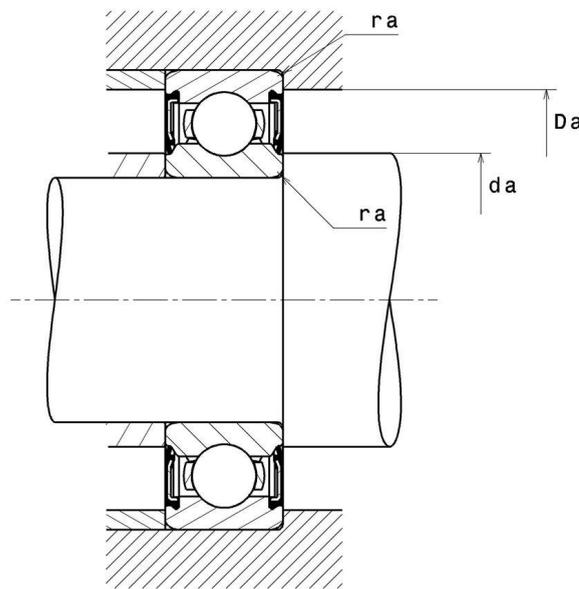
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S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
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62204EEC3
Single row deep groove ball bearings

PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	20 mm
D - External diameter	47 mm
B - Bearing/Inner ring width	18 mm
d1 - External diameter inner ring	25,9 mm
D1 - Inner diameter outer ring	41,4 mm
rs - Min fillet radius	1 mm
Radial clearance class	C3
Mass	0,12 kg

PRODUCT PERFORMANCE	
C - Dynamic load	13500000 mN
C0 - Static load	6600000 mN
Cu - Fatigue limit load	300000 mN
f0 - Coefficient	13.1
N lim - Mechanical Limit Speed	66000 °/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)	3.052 Hz
BPFI - Over rolling frequency on inner (60 rpm)	4.948 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	3.983 Hz
BRF - Rotational frequency – rolling element (60 rpm)	1.992 Hz
FTF - Rotational frequency - cage (60 rpm)	0.382 Hz

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ABUTMENT	
da min - Min shoulder diameter IR	25 mm
da max - Max shoulder diameter IR	25,9 mm
Da max - Max shoulder diameter OR	42 mm
ra max - Max shaft & housing fillet radius	1 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$\dfrac{f_0 F_a}{C_0}$	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

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :
If Po <Fr, then use Po = Fr