Brand of NTN Group

Technical data

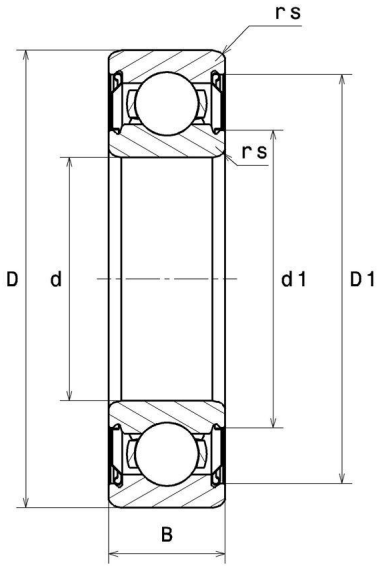


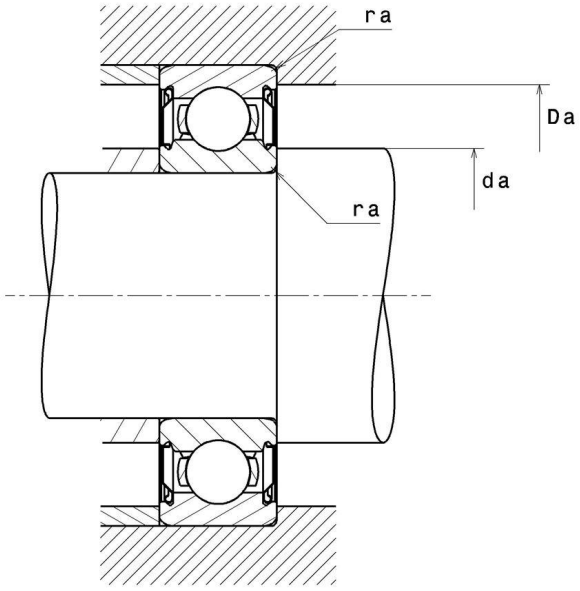
6200ZZ

Single row deep groove ball bearings

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

VISUAL (S)





6200ZZ
Single row deep groove ball bearings

PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	10 mm
D - External diameter	30 mm
B - Bearing/Inner ring width	9 mm
d1 - External diameter inner ring	14.9 mm
D1 - Inner diameter outer ring	24.5 mm
rs - Min fillet radius	0.6 mm
Radial clearance class	CN
Mass	0.031 kg

PRODUCT PERFORMANCE	
C - Dynamic load	6.3 kN
C0 - Static load	2.65 kN
Cu - Fatigue limit load	0.12 kN
f0 - Coefficient	12.2
N ref - Reference thermal speed	23000 tr/min
N lim - Mechanical Limit Speed	34000 tr/min
Tmin - Min operating temperature	-20 °C
Tmax - Max operating temperature	120 °C

BEARING FREQUENCIES	
BPFO - Over rolling frequency on outer ring (60 rpm)	2.536 Hz
BPFI - Over rolling frequency on inner (60 rpm)	4.464 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	3.357 Hz
BRF - Rotational frequency – rolling element (60 rpm)	1.679 Hz

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BEARING FREQUENCIES

FTF - Rotational frequency - cage (60 rpm)	0.362 Hz

ABUTMENT

da min - Min shoulder diameter IR	14 mm
da max - Max shoulder diameter IR	14.9 mm
Da max - Max shoulder diameter OR	26 mm
ra max - Max shaft & housing fillet radius	0.6 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

P = X.Fr + Y.Fa

$\frac{f_0 F_a}{C_0}$	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

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