Brand of NTN Group

Technical data

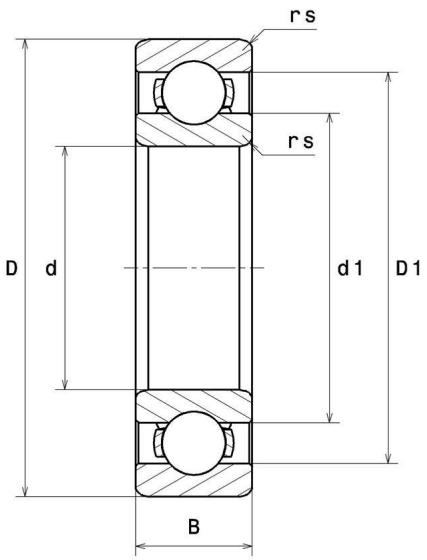


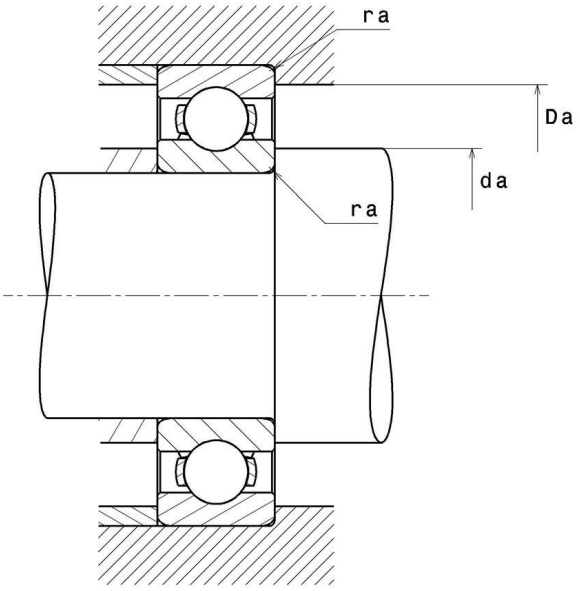
6211C4

Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, open

VISUAL (S)





6211C4
Single row deep groove ball bearings

PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	55 mm
D - External diameter	100 mm
B - Bearing/Inner ring width	21 mm
d1 - External diameter inner ring	65,4 mm
D1 - Inner diameter outer ring	90,9 mm
rs - Min fillet radius	1,5 mm
Radial clearance class	C4
Mass	0,604 kg

PRODUCT PERFORMANCE	
C - Dynamic load	45,7 kN
C0 - Static load	29,3 kN
Cu - Fatigue limit load	1,33 kN
f0 - Coefficient	14.3
N ref - Reference thermal speed	7500 tr/min
N lim - Mechanical Limit Speed	11000 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

BEARING FREQUENCIES	
BPFO - Over rolling frequency on outer ring (60 rpm)	4.078 Hz
BPFI - Over rolling frequency on inner (60 rpm)	5.922 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	5.24 Hz
BRF - Rotational frequency – rolling element (60 rpm)	2.62 Hz

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BEARING FREQUENCIES

FTF - Rotational frequency - cage (60 rpm)	0.408 Hz

ABUTMENT

da min - Min shoulder diameter IR	63 mm
Da max - Max shoulder diameter OR	92 mm
ra max - Max shaft & housing fillet radius	1,5 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