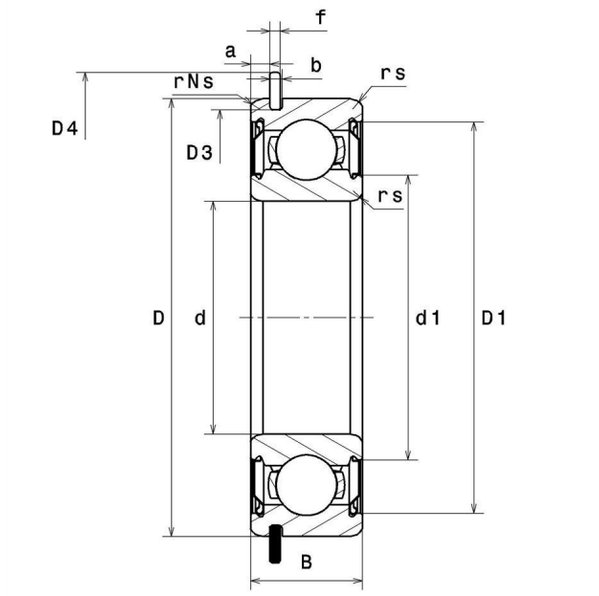
Technical data

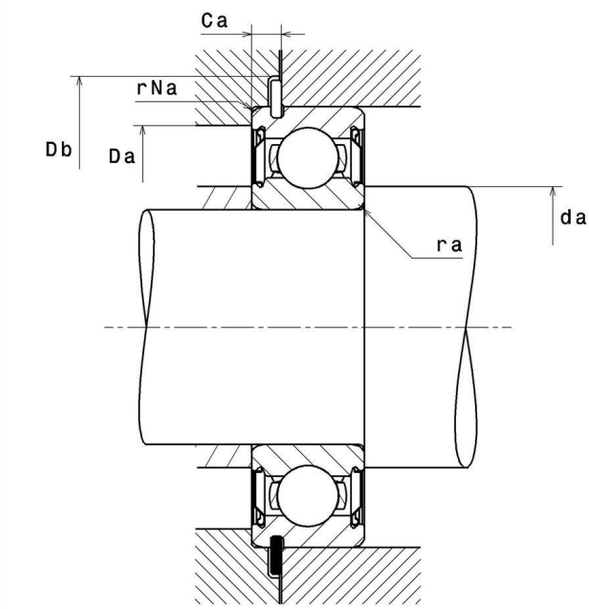
6211ZZNR/2AS

Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, snap ring & groove on outer diameter, shields on both sides

VISUAL (S)





PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	55 mm
D - External diameter	100 mm
B - Bearing/Inner ring width	21 mm
a min - Min position Groove	3,07 mm
a max - Max position groove	3,28 mm
rs - Min fillet radius	1,5 mm
rNs - Min fillet radius	0,5 mm
D3 - Max bottom groove diameter	96,8 mm
b min - Min groove width	2,7 mm
b max - Max groove width	3 mm
r0 max - Max bottom groove radius	0,6 mm
D4 max - Max outer diameter of assembled stop ring	106,5 mm
f - Stop ring thickness	2,46 mm
Snap ring reference	R100
Radial clearance class	CN
Mass	0,601 kg

PRODUCT PERFORMANCE	
C - Dynamic load	48000000 mN
C0 - Static load	29200000 mN
Cu - Fatigue limit load	2290000 mN
f0 - Coefficient	14.3
N lim - Grease lubrication limit speed	38400 °/s

PRODUCT PERFORMANCE	
Tmin - Min operating temperature	248,15 °K
Tmax - Max operating temperature	393,15 °K

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
rNa max - Max fillet radius on segment side	0,5 mm
Ca min - Mini segment position	5,43 mm
Ca max - Max segment position	5,74 mm
Db min - Min stop ring position diameter	108 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