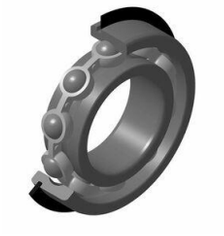
Technical data

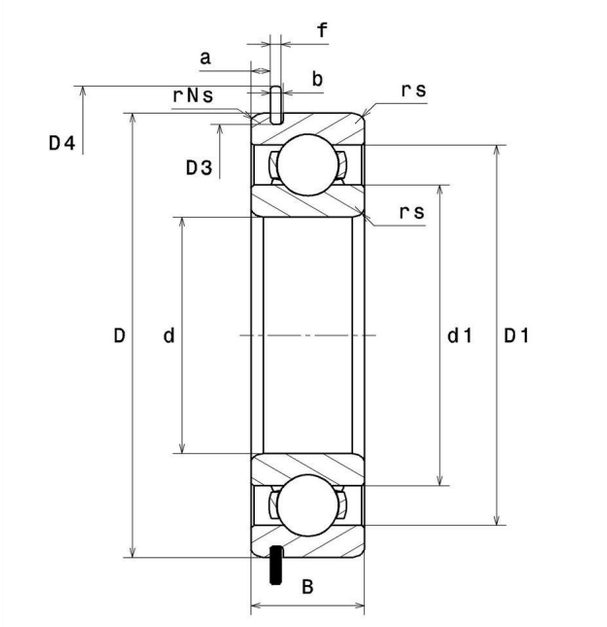
6314NRC3

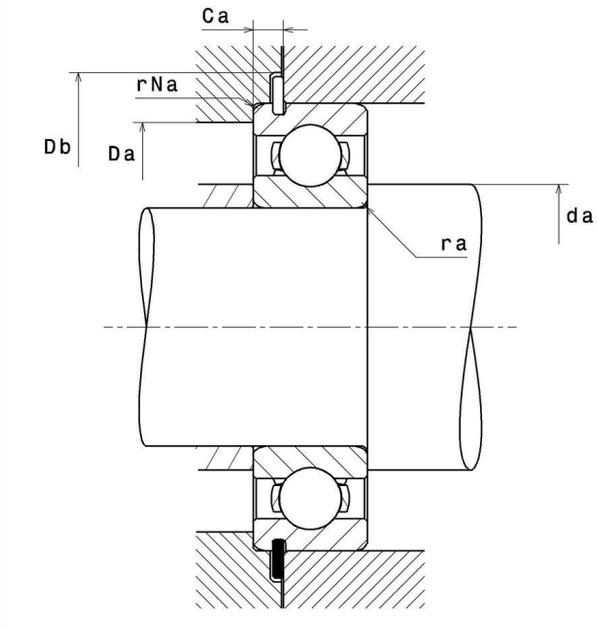
Single row deep groove ball bearings



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

VISUAL (S)





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Single row deep groove ball bearings

PRODUCT DIMENSIONS	
d	70 mm
D	150 mm
Bearing/Inner ring width(B)	35 mm
a min	4,65 mm
a max	4,9 mm
Ca min	7,47 mm
Ca max	7,72 mm
rs min	2,1 mm
rNs min	0,5 mm
D3 max	145,24 mm
b min	3,1 mm
b max	3,4 mm
r0 max	0,6 mm
D4 max	159,7 mm
f	2,82 mm
Snap ring reference	R150
Radial clearance class	C3
Mass	2,52 kg
Brand	NTN

PRODUCT PERFORMANCE	
Dynamic load, C	115 kN
Static load, C0	68 kN
Fatigue limit load, Cu	5,1 kN
f0	13.2
Nlim (oil)	5400 tr/min
Nlim (grease)	4600 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.385 Hz
Characteristic rolling element frequency, BSF	4.1 Hz
Characteristic outer ring frequency, BPF0	3.076 Hz
Characteristic inner ring frequency, BPFI	4.924 Hz

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ABUTMENT	
da min	81 mm
Da max	139 mm
ra max	2 mm
rNa max	0,5 mm
Db min	162 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