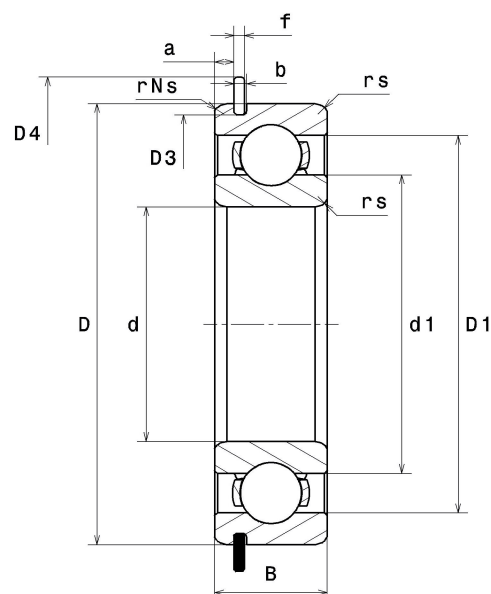


PDF technical sheet 6214NR

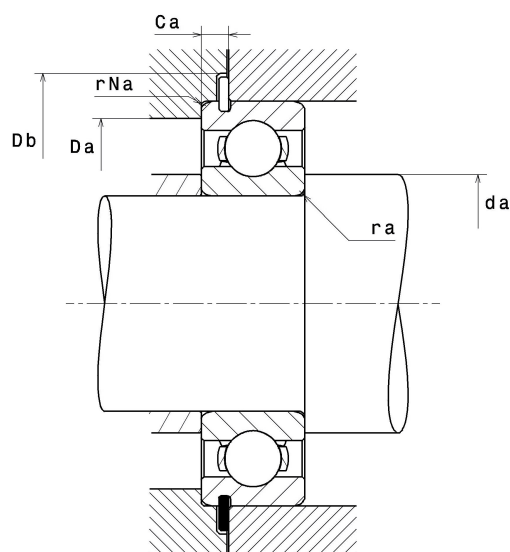


Single row deep groove ball bearings

Product definition	
d	70 mm
D	125 mm
B	24 mm
a min	3.86 mm
a max	4.06 mm
Ca min	6.68 mm
Ca max	6.88 mm
rs min	1.50 mm
rNs min	0.50 mm
D3 max	120.22 mm
b min	3.10 mm
b max	3.40 mm
r0 max	0.60 mm
D4 max	134.70 mm
f	2.82 mm
Snap ring reference	R125
Radial clearance class	CN
Mass	1.07 kg
Brand	NTN



Product performance	
Dynamic load, C	62 kN
Static load, C0	44 kN
Fatigue limit load, Cu	2 kN
f0	14.5
Nlim (oil)	6,000 Tr/min
Nlim (grease)	5,100 Tr/min
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.40 Hz
Characteristic outer ring frequency, BPF0	4.10 Hz
Characteristic inner ring frequency, BPF1	5.90 Hz



Abutment dimensions

da min	78 mm
Da max	117 mm
ra max	1.50 mm
rNa max	0.50 mm
Db min	136.50 mm

Calculation factors

Equivalent dynamic radial load

$$P = X \cdot Fr + Y \cdot Fa$$

$\frac{f_0 F_a}{C_0}$	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

$$P_0 = X_0 \cdot Fr + Y_0 \cdot Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

If $P_0 < Fr$, then use $P_0 = Fr$