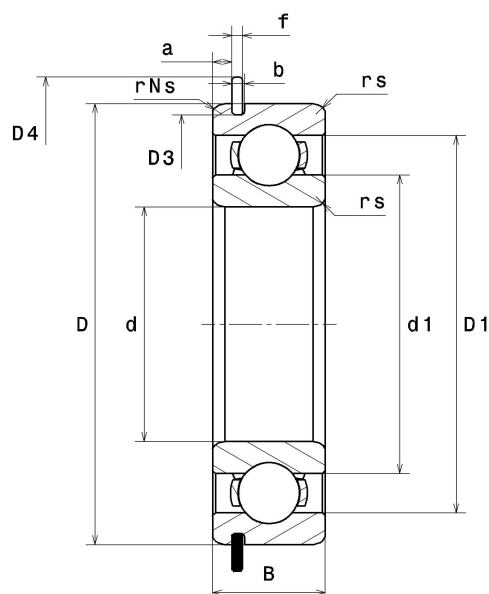


PDF technical sheet 6217NRC3

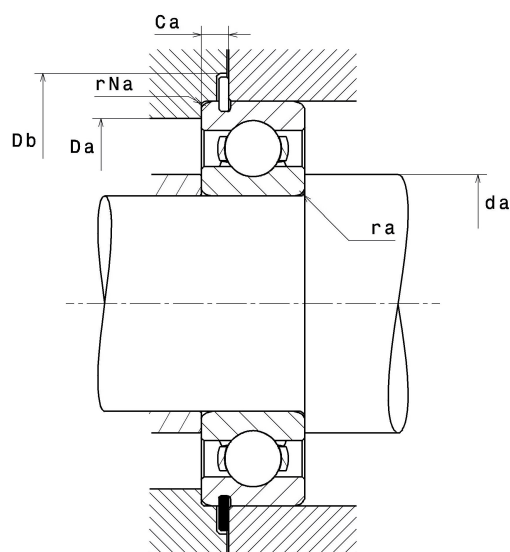


Single row deep groove ball bearings

Product definition	
d	85 mm
D	150 mm
B	28 mm
a min	4.65 mm
a max	4.90 mm
Ca min	7.37 mm
Ca max	7.72 mm
rs min	2 mm
rNs min	0.50 mm
D3 max	145.24 mm
b min	3.10 mm
b max	3.40 mm
r0 max	0.60 mm
D4 max	159.70 mm
f	2.82 mm
Snap ring reference	R150
Radial clearance class	C3
Mass	1.79 kg
Brand	NTN



Product performance	
Dynamic load, C	83.50 kN
Static load, C0	64 kN
Fatigue limit load, Cu	2.70 kN
f0	14.7
Nlim (oil)	5,000 Tr/min
Nlim (grease)	4,200 Tr/min
Min operating temperature, Tmin	-60 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.78 Hz
Characteristic outer ring frequency, BPF0	4.58 Hz
Characteristic inner ring frequency, BPF1	6.43 Hz



Abutment dimensions

da min	94 mm
Da max	141 mm
ra max	2 mm
rNa max	0.50 mm
Db min	162 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 $P_0 = Fr$