

PDF technical sheet 6022C4

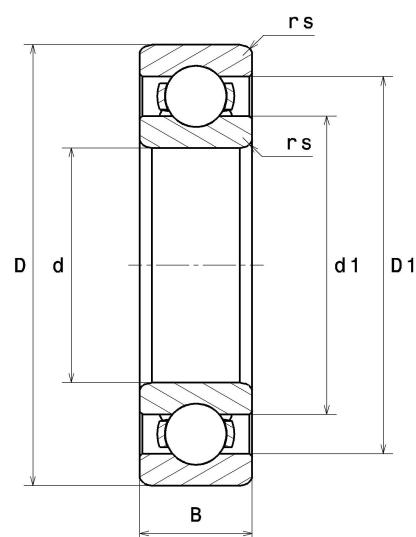


Single row deep groove ball bearings

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

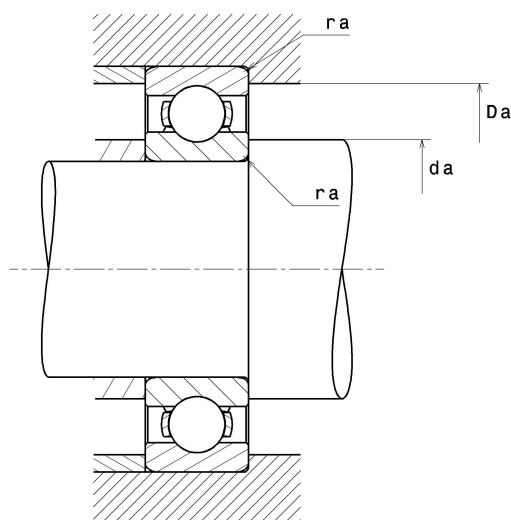
Product definition

d	110 mm
D	170 mm
B	28 mm
rs min	2 mm
Radial clearance class	C4
Mass	1.96 kg
Brand	NTN



Product performance

Dynamic load, C	82 kN
Static load, C0	73 kN
Fatigue limit load, Cu	2.80 kN
f0	15.6
Nlim (oil)	4,500 Tr/min
Nlim (grease)	3,800 Tr/min
Min operating temperature, Tmin	-60 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	7.54 Hz
Characteristic outer ring frequency, BPF0	6.09 Hz
Characteristic inner ring frequency, BPF1	7.91 Hz



Abutment dimensions

da min	119 mm
Da max	161 mm
ra max	2 mm

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$\frac{f_0 F_a}{C_0}$	e	$F_a / F_r \leq e$		$F_a / F_r > e$	
		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

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

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