Technical data

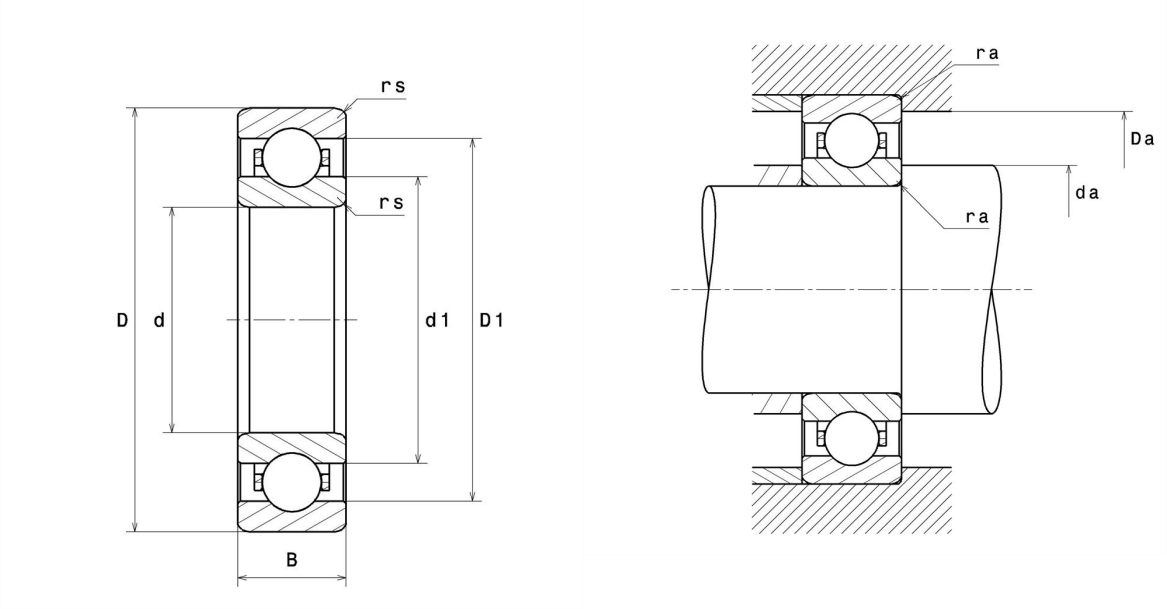
6944C3

Single row deep groove ball bearings



Deep groove ball bearing, radial contact, machined cage, open

Visual(s)



Product definition

d	220 mm
D	300 mm
B	38 mm
rs min	2.1 mm
Radial clearance class	C3
Mass	7.69 kg
Brand	NTN

Product performance

Dynamic load, C	160 kN
Static load, C0	180 kN
Fatigue limit load, Cu	5.1 kN
f0	16.4
Nlim (oil)	2,300 Tr/min
Nlim (grease)	2,000 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.14 Hz
Characteristic outer ring frequency, BPF0	7.67 Hz
Characteristic inner ring frequency, BPFI	9.33 Hz

Abutment dimensions

da min	231 mm
Da max	289 mm
ra max	2 mm

Calculation 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