Technical data

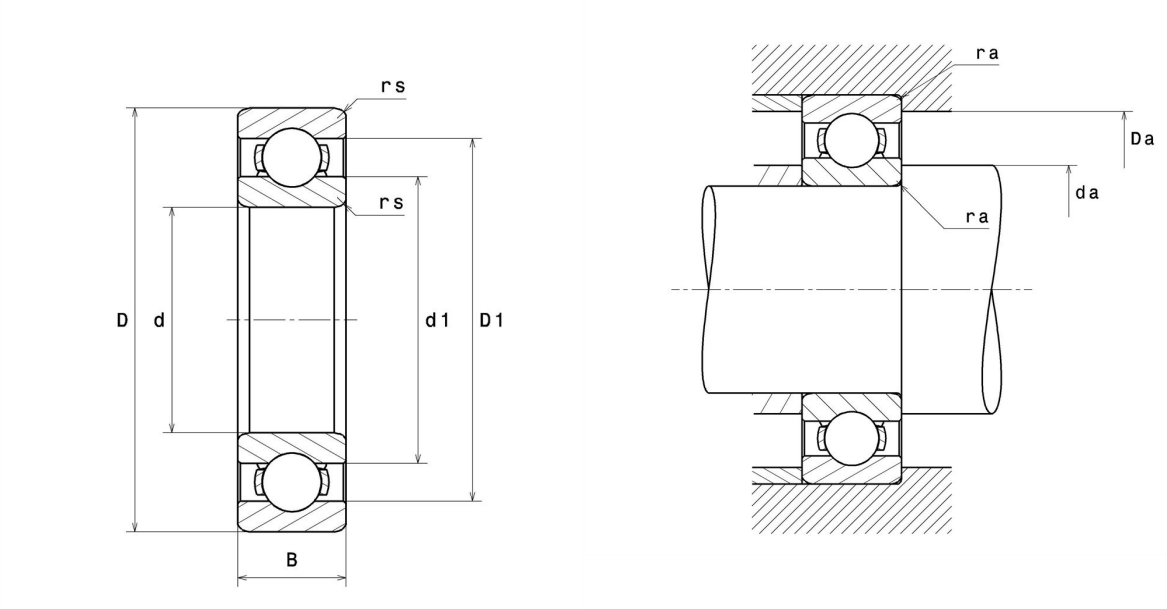
6815C3

Single row deep groove ball bearings



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

Visual(s)



Product definition

d	75 mm
D	95 mm
B	10 mm
rs min	0.6 mm
Radial clearance class	C3
Mass	0.14 kg
Brand	NTN

Product performance

Dynamic load, C	12.5 kN
Static load, C0	12.9 kN
Fatigue limit load, Cu	0.59 kN
f0	16
Nlim (oil)	7,600 Tr/min
Nlim (grease)	6,400 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	15.23 Hz
Characteristic outer ring frequency, BPF0	12.15 Hz
Characteristic inner ring frequency, BPFI	13.85 Hz

Abutment dimensions

da min	79 mm
Da max	91 mm
ra max	0.6 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