Technical data

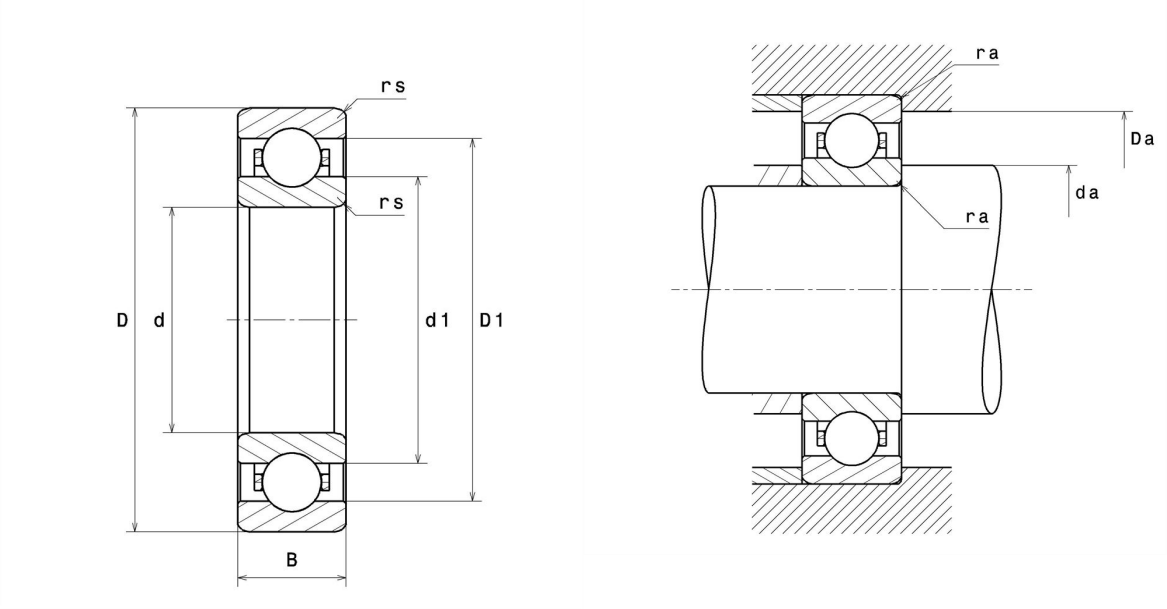
6856C3

Single row deep groove ball bearings



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

Visual(s)



Product definition

d	280 mm
D	350 mm
B	33 mm
rs min	2 mm
Radial clearance class	C3
Mass	7.4 kg
Brand	NTN

Product performance

Dynamic load, C	137 kN
Static load, C0	177 kN
Fatigue limit load, Cu	4.55 kN
f0	16.1
Nlim (oil)	1,900 Tr/min
Nlim (grease)	1,600 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	14.63 Hz
Characteristic outer ring frequency, BPF0	11.18 Hz
Characteristic inner ring frequency, BPFI	12.82 Hz

Abutment dimensions

da min	289 mm
Da max	341 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