Technical datasheet

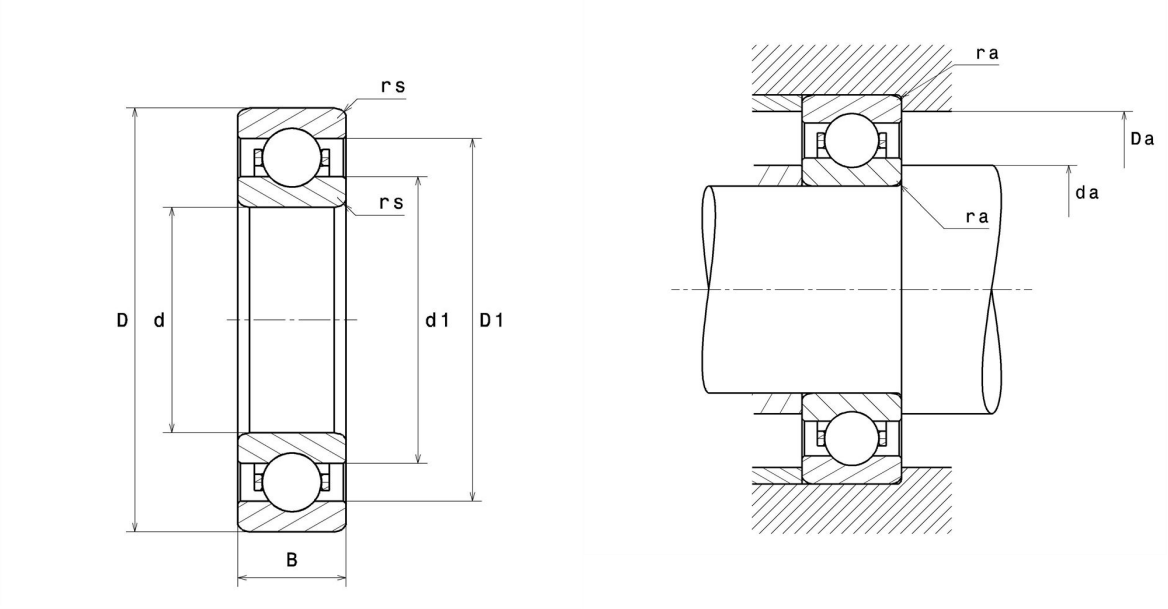
6860

Single row deep groove ball bearings



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

Visual(s)



Product definition

d	300 mm
D	380 mm
B	38 mm
rs min	2.1 mm
Radial clearance class	CN
Mass	10.5 kg
Brand	NTN

Product performance

Dynamic load, C	162 kN
Static load, C0	210 kN
Fatigue limit load, Cu	5.2 kN
f0	16.1
Nlim (oil)	1,700 rpm
Nlim (grease)	1,500 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	14.21 Hz
Characteristic outer ring frequency, BPF0	10.7 Hz
Characteristic inner ring frequency, BPFI	12.3 Hz

Abutment dimensions

da min	311 mm
Da max	369 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