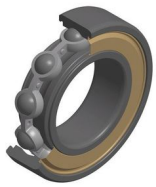
Technical data

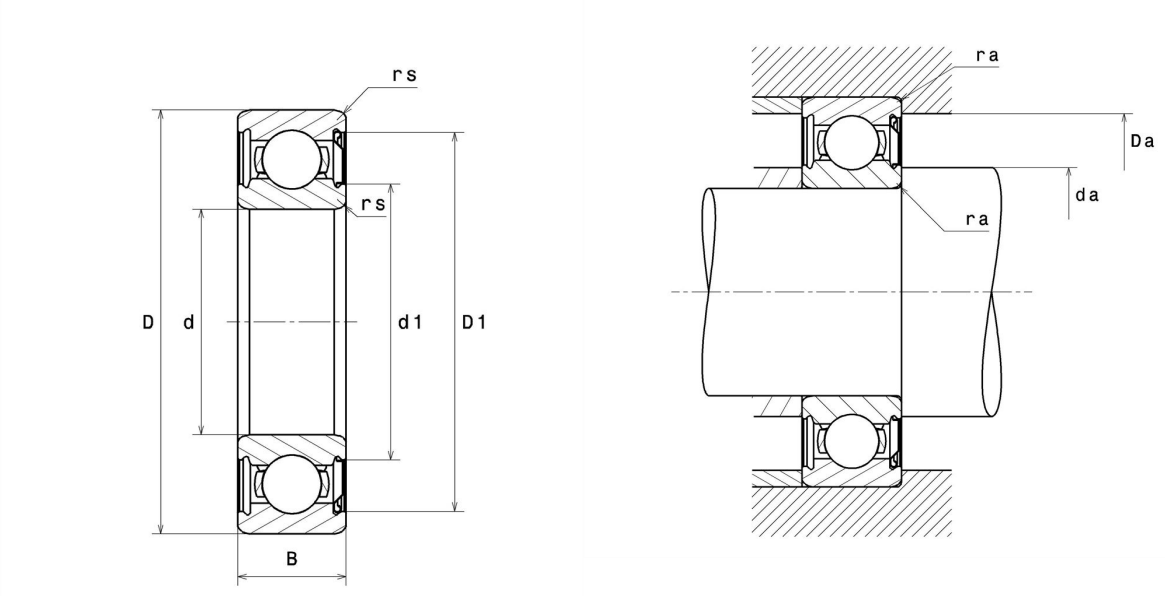
6314Z

Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, shield on one side



Visual(s)



Product definition

d	70 mm
D	150 mm
B	35 mm
rs min	2.1 mm
Radial clearance class	CN
Mass	2.52 kg
Brand	NTN

Product performance

Dynamic load, C	104 kN
Static load, C0	68 kN
Fatigue limit load, Cu	2.95 kN
f0	13.2
Nlim (oil)	5,400 Tr/min
Nlim (grease)	4,600 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.38 Hz
Characteristic rolling element frequency, BSF	4.1 Hz
Characteristic outer ring frequency, BPF0	3.08 Hz
Characteristic inner ring frequency, BPFI	4.92 Hz

Abutment dimensions

da min	81 mm
Da max	139 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