Technical data

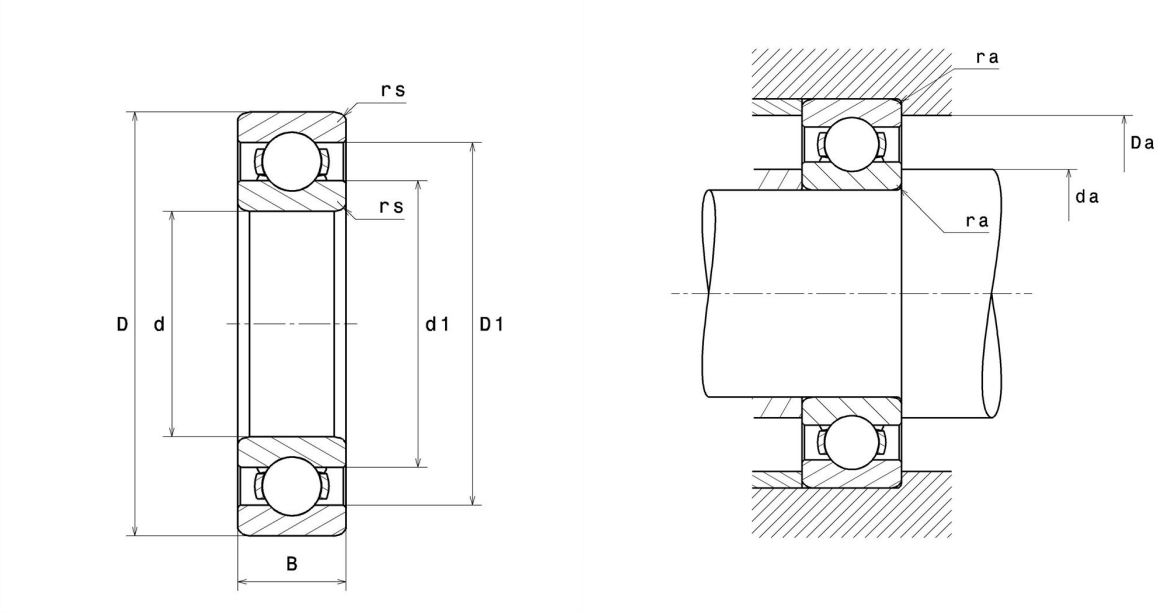
6414

Single row deep groove ball bearings



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

Visual(s)



Product definition

d	70 mm
D	180 mm
B	42 mm
rs min	3 mm
Radial clearance class	CN
Mass	4.83 kg
Brand	NTN

Product performance

Dynamic load, C	128 kN
Static load, C0	89.5 kN
Fatigue limit load, Cu	4.05 kN
f0	12.7
Nlim (oil)	4,800 Tr/min
Nlim (grease)	4,100 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C

Abutment dimensions

da min	83 mm
Da max	167 mm
ra max	2.5 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