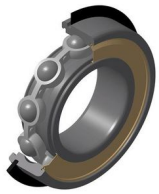
Technical data

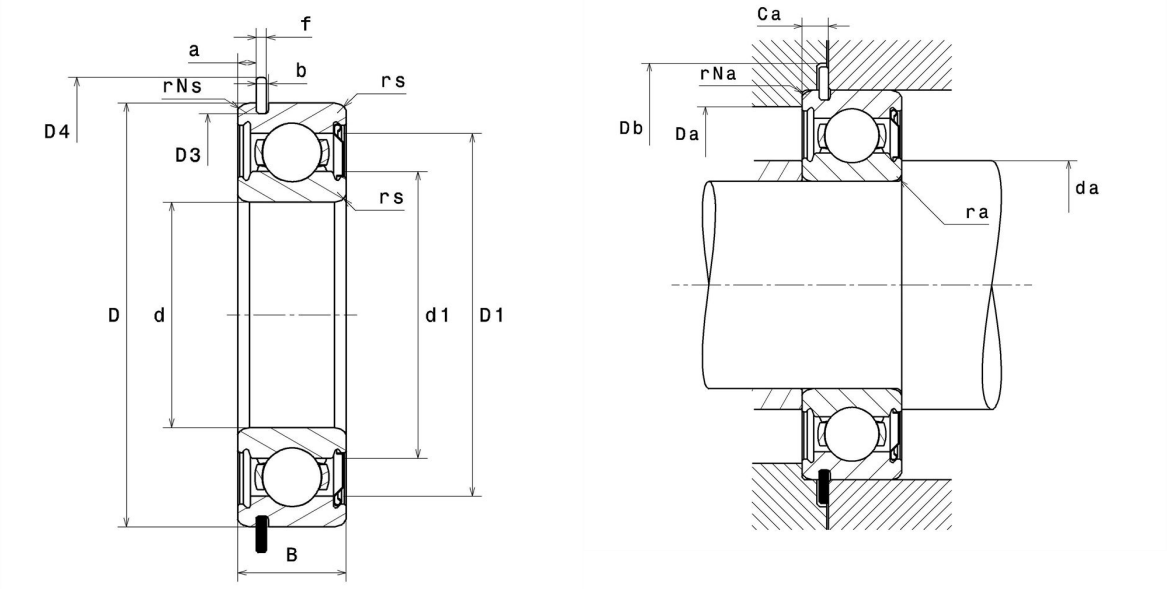
6018ZNR

Single row deep groove ball bearings



Deep groove ball bearing, radial contact, pressed steel cage, snap ring & groove on outer diameter, shield on one side

Visual(s)



Product definition

d	90 mm
D	140 mm
B	24 mm
a min	3.45 mm
a max	3.71 mm
Ca min	6.17 mm
Ca max	6.53 mm
rs min	1.5 mm
rNs min	0.5 mm
D3 max	135.23 mm
b min	3.1 mm
b max	3.4 mm
r0 max	0.6 mm
D4 max	149.7 mm
f	2.82 mm
Snap ring reference	R140
Radial clearance class	CN
Mass	1.02 kg
Brand	NTN

Product performance

Dynamic load, C	58 kN
Static load, C0	49.5 kN
Fatigue limit load, Cu	2.1 kN
f0	15.6
Nlim (oil)	5,600 Tr/min
Nlim (grease)	4,700 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.49 Hz
Characteristic outer ring frequency, BPF0	6.08 Hz
Characteristic inner ring frequency, BPFI	7.92 Hz

Abutment dimensions

da min	98 mm
Da max	132 mm
ra max	1.5 mm
rNa max	0.5 mm
Db min	152 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