



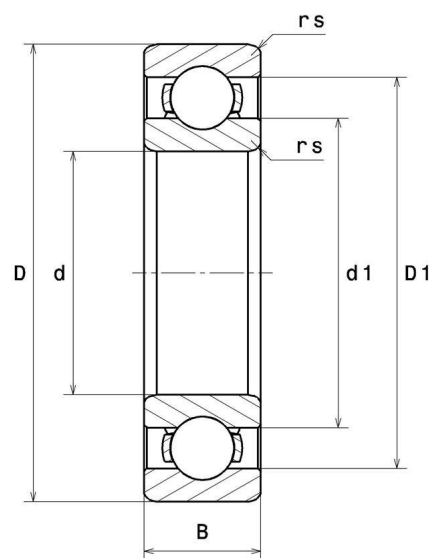
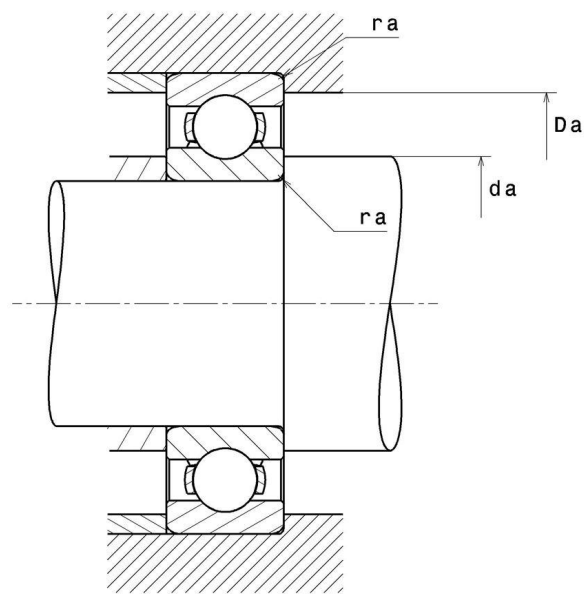
Technical data

6312C3

Single row deep groove ball bearings

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

VISUAL (S)



6312C3

Single row deep groove ball bearings

PRODUCT DIMENSIONS

Internal diameter (d)	60 mm
External diameter (D)	130 mm
Bearing/Inner ring width (B)	31 mm
Min fillet radius (rs)	2,1 mm
Radial clearance class	C3
Mass	1,73 kg
Brand	NTN

PRODUCT PERFORMANCE

Dynamic load (C)	90,5 kN
Static load (C0)	52 kN
Fatigue limit load (Cu)	4,1 kN
Coefficient f0	13.2
Nlim (oil)	6300 tr/min
Nlim (grease)	5400 tr/min
Min operating temperature (Tmin)	-40 °C
Max operating temperature (Tmax)	120 °C

ABUTMENT

Min shoulder diameter IR (da min)	71 mm
Max shoulder diameter OR (Da max)	119 mm
Max shaft & housing fillet radius (ra max)	2 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$\frac{f_0 F_a}{C_0}$	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

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

If $P_0 < F_r$, then use $P_0 = F_r$