



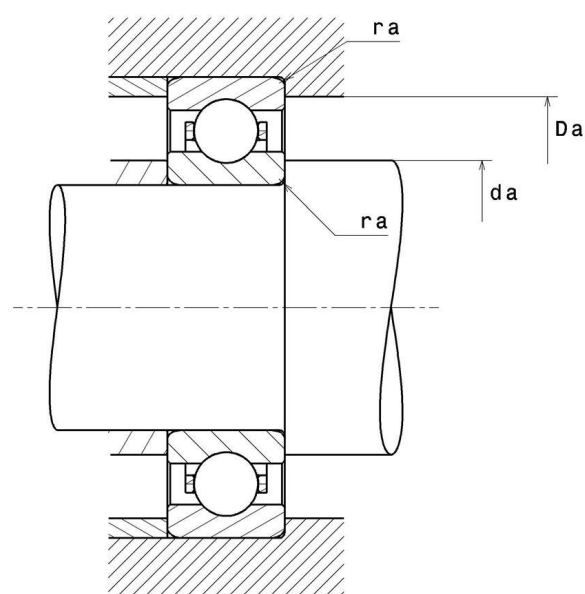
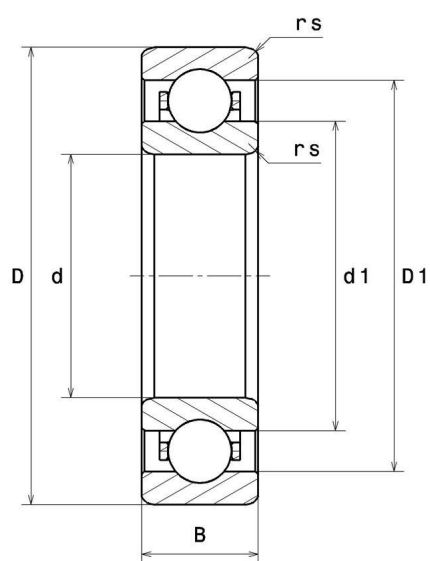
Technical data

6312L1C3

Single row deep groove ball bearings

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

VISUAL (S)



6312L1C3

Single row deep groove ball bearings

PRODUCT DEFINITION

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

PRODUCT PERFORMANCE

C - Dynamic load	90500000 mN
C0 - Static load	52000000 mN
Cu - Fatigue limit load	2360000 mN
f0 - Coefficient	13.2
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

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



NTN Europe

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S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
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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 $P_0 = F_r$