



Technical data

6410C3

Single row deep groove ball bearings

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

VISUAL (S)



6410C3

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	50 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	1,88 kg

PRODUCT PERFORMANCE

C - Dynamic load	92000000 mN
C0 - Static load	49500000 mN
Cu - Fatigue limit load	3850000 mN
f0 - Coefficient	12.5
N lim - Oil lubrication limit speed	40200 °/s
N lim - Grease lubrication limit speed	34200 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	61 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
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

INDUSTRY CALCUL 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

$$Po = X_0.Fr + Y_0.Fa$$

X ₀	Y ₀
0.6	0.5

For single or DT bearing arrangement :

If Po <Fr, then use Po = Fr