



Technical data

6414C3

Single row deep groove ball bearings

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

VISUAL (S)



6414C3

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	70 mm
D - External diameter	180 mm
B - Bearing/Inner ring width	42 mm
rs - Min fillet radius	3 mm
Radial clearance class	C3
Mass	4,83 kg

PRODUCT PERFORMANCE

C - Dynamic load	142000000 mN
C0 - Static load	89500000 mN
Cu - Fatigue limit load	6250000 mN
f0 - Coefficient	12.7
N lim - Oil lubrication limit speed	28800 °/s
N lim - Grease lubrication limit speed	24600 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	83 mm
Da max - Max shoulder diameter OR	167 mm
ra max - Max shaft & housing fillet radius	2,5 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

$P = X.Fr + Y.Fa$

$\frac{f_0 F_a}{C_0}$	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

$P_0 = X_0.Fr + Y_0.Fa$

X ₀	Y ₀
0.6	0.5

For single or DT bearing arrangement :

If P₀ <Fr, then use P₀ = Fr

