

Technical data

6406C3

Single row deep groove ball bearings



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

VISUAL (S)



6406C3

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	30 mm
D - External diameter	90 mm
B - Bearing/Inner ring width	23 mm
rs - Min fillet radius	1,5 mm
Radial clearance class	C3
Mass	0,735 kg

PRODUCT PERFORMANCE

C - Dynamic load	48000000 mN
C0 - Static load	23900000 mN
Cu - Fatigue limit load	1860000 mN
f0 - Coefficient	12.3
N lim - Oil lubrication limit speed	60000 °/s
N lim - Grease lubrication limit speed	52800 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	38 mm
Da max - Max shoulder diameter OR	82 mm
ra max - Max shaft & housing fillet radius	1,5 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

$P = X.F_r + Y.F_a$

$\frac{f_0 F_a}{C_0}$	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 $P_0 = F_r$

