

Technical data

6000C3

Single row deep groove ball bearings



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

VISUAL (S)



6000C3

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	10 mm
D - External diameter	26 mm
B - Bearing/Inner ring width	8 mm
rs - Min fillet radius	0,3 mm
Radial clearance class	C3
Mass	0,019 kg

PRODUCT PERFORMANCE

C - Dynamic load	5050000 mN
C0 - Static load	1960000 mN
Cu - Fatigue limit load	138000 mN
f0 - Coefficient	12.4
N lim - Oil lubrication limit speed	204000 °/s
N lim - Grease lubrication limit speed	174000 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	12 mm
Da max - Max shoulder diameter OR	24 mm
ra max - Max shaft & housing fillet radius	0,3 mm



NTN Europe

1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00
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