



Technical data

16010C3

Single row deep groove ball bearings

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

VISUAL (S)



16010C3

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	50 mm
D - External diameter	80 mm
B - Bearing/Inner ring width	10 mm
rs - Min fillet radius	0,6 mm
Radial clearance class	C3
Mass	0,18 kg

PRODUCT PERFORMANCE

C - Dynamic load	14700000 mN
C0 - Static load	11300000 mN
Cu - Fatigue limit load	760000 mN
f0 - Coefficient	16.4
N lim - Oil lubrication limit speed	58800 °/s
N lim - Grease lubrication limit speed	50400 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	54 mm
Da max - Max shoulder diameter OR	76 mm
ra max - Max shaft & housing fillet radius	0,6 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 $P_0 = F_r$



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