



Technical data

16010

Single row deep groove ball bearings

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

VISUAL (S)



16010

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	CN
Mass	0,18 kg

PRODUCT PERFORMANCE

C - Dynamic load	14,7 kN
C0 - Static load	11,3 kN
Cu - Fatigue limit load	0,76 kN
f0 - Coefficient	16.4
N lim - Oil lubrication limit speed	9800 tr/min
N lim - Grease lubrication limit speed	8400 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

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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