



Technical data

16004

Single row deep groove ball bearings

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

VISUAL (S)



16004

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	20 mm
D - External diameter	42 mm
B - Bearing/Inner ring width	8 mm
rs - Min fillet radius	0,3 mm
Radial clearance class	CN
Mass	0,051 kg

PRODUCT PERFORMANCE

C - Dynamic load	8,75 kN
C0 - Static load	4,5 kN
Cu - Fatigue limit load	0,35 kN
f0 - Coefficient	14.5
N lim - Oil lubrication limit speed	21000 tr/min
N lim - Grease lubrication limit speed	18000 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

ABUTMENT

da min - Min shoulder diameter IR	22 mm
Da max - Max shoulder diameter OR	40 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
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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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