



Technical data

16020

Single row deep groove ball bearings

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

VISUAL (S)



16020

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	100 mm
D - External diameter	150 mm
B - Bearing/Inner ring width	16 mm
rs - Min fillet radius	1 mm
Radial clearance class	CN
Mass	0,91 kg

PRODUCT PERFORMANCE

C - Dynamic load	39000000 mN
C0 - Static load	36500000 mN
Cu - Fatigue limit load	2180000 mN
f0 - Coefficient	16.4
N lim - Oil lubrication limit speed	30000 °/s
N lim - Grease lubrication limit speed	25200 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	105 mm
Da max - Max shoulder diameter OR	145 mm
ra max - Max shaft & housing fillet radius	1 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
 SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X \cdot Fr + Y \cdot Fa$$

$\frac{f_0 F_a}{C_0}$	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

$$P_0 = X_0 \cdot Fr + Y_0 \cdot Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If $P_0 < Fr$, then use $P_0 = Fr$

