

Technical data

6314CM

Single row deep groove ball bearings



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

VISUAL (S)



6314CM

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	70 mm
D - External diameter	150 mm
B - Bearing/Inner ring width	35 mm
rs - Min fillet radius	2,1 mm
Radial clearance class	CM
Mass	2,52 kg

PRODUCT PERFORMANCE

C - Dynamic load	115000000 mN
C0 - Static load	68000000 mN
Cu - Fatigue limit load	5100000 mN
f0 - Coefficient	13.2
N lim - Oil lubrication limit speed	32400 °/s
N lim - Grease lubrication limit speed	27600 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	81 mm
Da max - Max shoulder diameter OR	139 mm
ra max - Max shaft & housing fillet radius	2 mm



NTN Europe

1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00
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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 $P_0 = F_r$