

Technical data

6315CM

Single row deep groove ball bearings



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

VISUAL (S)



6315CM

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	75 mm
D - External diameter	160 mm
B - Bearing/Inner ring width	37 mm
rs - Min fillet radius	2,1 mm
Radial clearance class	CM
Mass	3,02 kg

PRODUCT PERFORMANCE

C - Dynamic load	126000000 mN
C0 - Static load	77000000 mN
Cu - Fatigue limit load	5550000 mN
f0 - Coefficient	13.2
N lim - Oil lubrication limit speed	30000 °/s
N lim - Grease lubrication limit speed	25800 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	85 mm
Da max - Max shoulder diameter OR	149 mm
ra max - Max shaft & housing fillet radius	2 mm



NTN Europe

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INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X.Fr + Y.Fa$$

$\frac{f_0 F_a}{C_0}$	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

$$Po = X_0.Fr + Y_0.Fa$$

X ₀	Y ₀
0.6	0.5

For single or DT bearing arrangement :

If Po ≤Fr, then use Po = Fr