

Technical data

6312CM

Single row deep groove ball bearings



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

VISUAL (S)



6312CM

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	60 mm
D - External diameter	130 mm
B - Bearing/Inner ring width	31 mm
rs - Min fillet radius	2,1 mm
Radial clearance class	CM
Mass	1,73 kg

PRODUCT PERFORMANCE

C - Dynamic load	90500000 mN
C0 - Static load	52000000 mN
Cu - Fatigue limit load	4100000 mN
f0 - Coefficient	13.2
N lim - Oil lubrication limit speed	37800 °/s
N lim - Grease lubrication limit speed	32400 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	71 mm
Da max - Max shoulder diameter OR	119 mm
ra max - Max shaft & housing fillet radius	2 mm



NTN Europe

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INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

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

$\frac{f_0 F_a}{C_0}$	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 $P_0 = Fr$

