

Technical data

6300CM

Single row deep groove ball bearings



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

VISUAL (S)



6300CM

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	10 mm
D - External diameter	35 mm
B - Bearing/Inner ring width	11 mm
rs - Min fillet radius	0,6 mm
Radial clearance class	CM
Mass	0,053 kg

PRODUCT PERFORMANCE

C - Dynamic load	9100000 mN
C0 - Static load	3500000 mN
Cu - Fatigue limit load	273000 mN
f0 - Coefficient	11.4
N lim - Oil lubrication limit speed	162000 %/s
N lim - Grease lubrication limit speed	138000 %/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	14 mm
Da max - Max shoulder diameter OR	31 mm
ra max - Max shaft & housing fillet radius	0,6 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
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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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