

Technical data

6010CM

Single row deep groove ball bearings



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

VISUAL (S)



6010CM

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	50 mm
D - External diameter	80 mm
B - Bearing/Inner ring width	16 mm
rs - Min fillet radius	1 mm
Radial clearance class	CM
Mass	0,261 kg

PRODUCT PERFORMANCE

C - Dynamic load	24200000 mN
C0 - Static load	16600000 mN
Cu - Fatigue limit load	1240000 mN
f0 - Coefficient	15.5
N lim - Oil lubrication limit speed	58800 °/s
N lim - Grease lubrication limit speed	50400 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	55 mm
Da max - Max shoulder diameter OR	75 mm
ra max - Max shaft & housing fillet radius	1 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 $P_0 = Fr$

