

Technical data

6205CM

Single row deep groove ball bearings



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

VISUAL (S)



6205CM

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	25 mm
D - External diameter	52 mm
B - Bearing/Inner ring width	15 mm
rs - Min fillet radius	1 mm
Radial clearance class	CM
Mass	0,128 kg

PRODUCT PERFORMANCE

C - Dynamic load	15,5 kN
C0 - Static load	7,85 kN
Cu - Fatigue limit load	0,55 kN
f0 - Coefficient	13.9
N lim - Oil lubrication limit speed	15000 tr/min
N lim - Grease lubrication limit speed	13000 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

ABUTMENT

da min - Min shoulder diameter IR	30 mm
Da max - Max shoulder diameter OR	47 mm
ra max - Max shaft & housing fillet radius	1 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

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

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

