

Technical data

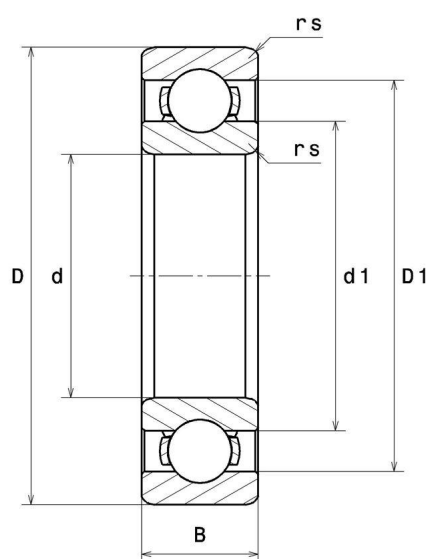
6005CM

Single row deep groove ball bearings



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

VISUAL (S)



6005CM

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	25 mm
D - External diameter	47 mm
B - Bearing/Inner ring width	12 mm
rs - Min fillet radius	0,6 mm
Radial clearance class	CM
Mass	0,08 kg

PRODUCT PERFORMANCE

C - Dynamic load	11200000 mN
C0 - Static load	5850000 mN
Cu - Fatigue limit load	380000 mN
f0 - Coefficient	14.5
N lim - Oil lubrication limit speed	108000 °/s
N lim - Grease lubrication limit speed	90000 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	29 mm
Da max - Max shoulder diameter OR	43 mm
ra max - Max shaft & housing fillet radius	0,6 mm



NTN Europe

1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00
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 $P_0 = Fr$

