



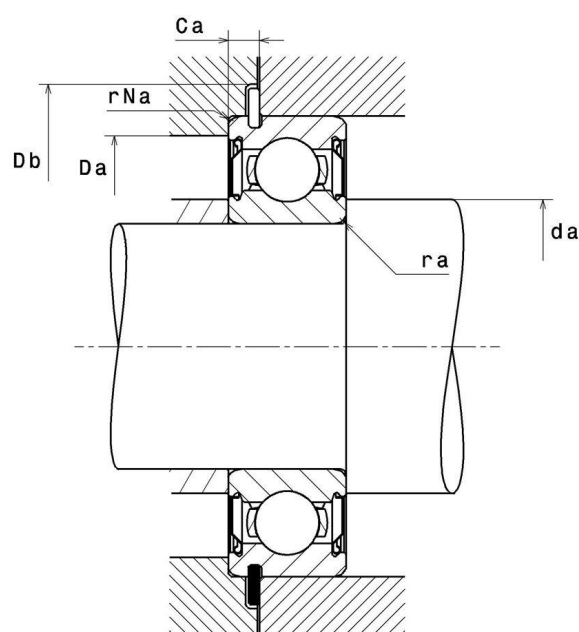
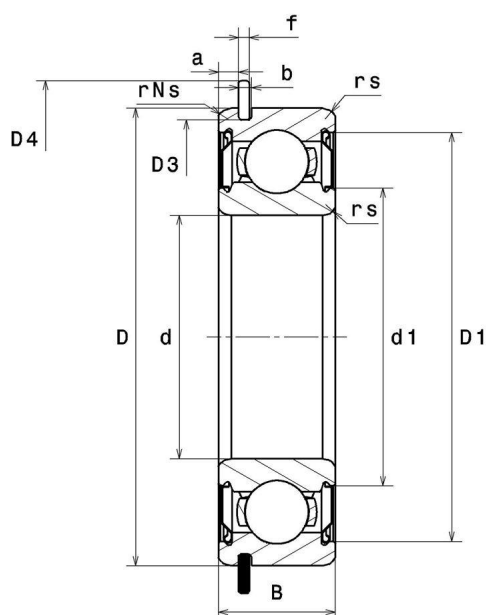
Technical data

6005ZZNR/5K

Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, snap ring & groove on outer diameter, shields on both sides

VISUAL (S)



6005ZZNR/5K

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
a min - Min position Groove	1,9 mm
a max - Max position groove	2,06 mm
rs - Min fillet radius	0,6 mm
rNs - Min fillet radius	0,5 mm
D3 - Max bottom groove diameter	44,6 mm
b min - Min groove width	1,35 mm
b max - Max groove width	1,65 mm
r0 max - Max bottom groove radius	0,4 mm
D4 max - Max outer diameter of assembled stop ring	52,7 mm
f - Stop ring thickness	1,12 mm
Snap ring reference	R47
Radial clearance class	CN
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 - Grease lubrication limit speed	90000 °/s



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
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

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PRODUCT PERFORMANCE

Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	423,15 °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
rNa max - Max fillet radius on segment side	0,5 mm
Ca min - Mini segment position	3,02 mm
Ca max - Max segment position	3,18 mm
Db min - Min stop ring position diameter	53,5 mm



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INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$\frac{f_0 F_a}{C_0}$	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

$P_0 = X_0.Fr + Y_0.Fa$

X ₀	Y ₀
0.6	0.5

For single or DT bearing arrangement :

If P₀ <Fr, then use P₀ = Fr