



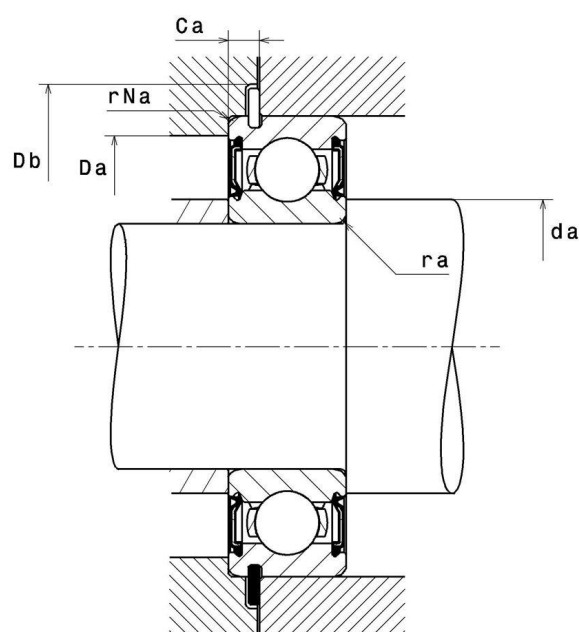
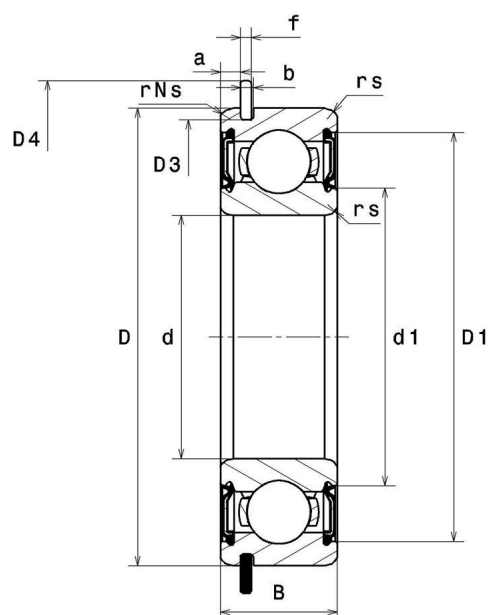
Technical data

60/28LLUNR/2AS

Single row deep groove ball bearings

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

VISUAL (S)



60/28LLUNR/2AS

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PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	28 mm
D - External diameter	52 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	49,73 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	57,9 mm
f - Stop ring thickness	1,12 mm
Snap ring reference	R52
Radial clearance class	CN
Mass	0,098 kg

PRODUCT PERFORMANCE

C - Dynamic load	13800000 mN
C0 - Static load	7400000 mN
Cu - Fatigue limit load	580000 mN
f0 - Coefficient	14.5
N lim - Grease lubrication limit speed	50400 °/s



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

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PRODUCT PERFORMANCE

Tmin - Min operating temperature	248,15 °K
Tmax - Max operating temperature	383,15 °K

ABUTMENT

da min - Min shoulder diameter IR	32 mm
da max - Max shoulder diameter IR	34 mm
Da max - Max shoulder diameter OR	48 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	58,5 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

$$Po = X_0.Fr + Y_0.Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If Po ≤Fr, then use Po = Fr