



Technical data

6307LLUC3/5K

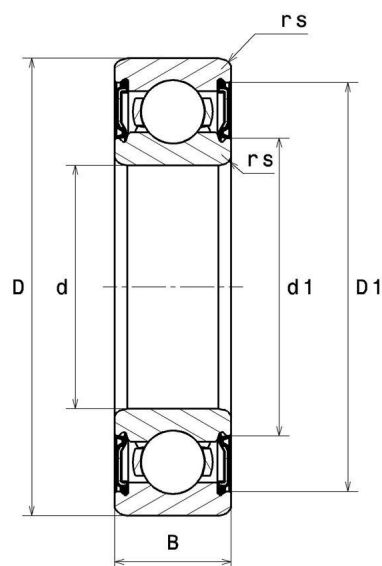
Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, contact seals on both sides

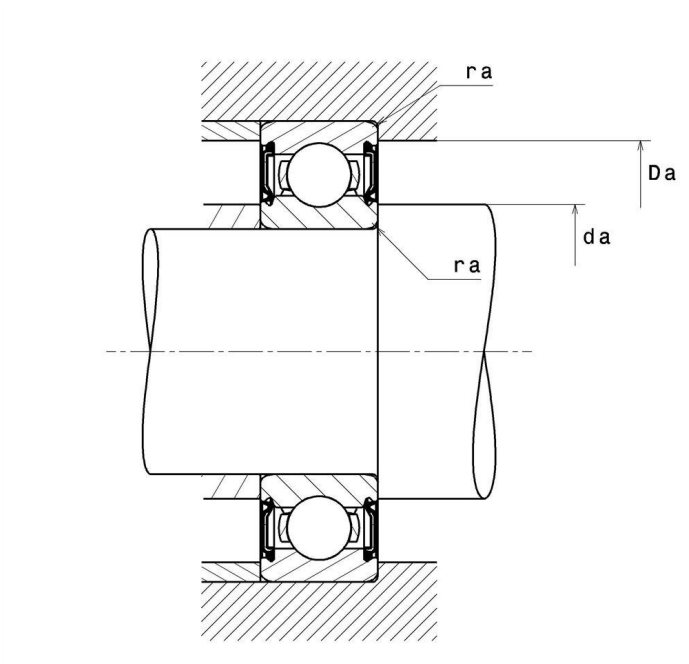
KIT CONTENT

6307LLUC3/5K

VISUAL (S)



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Single row deep groove ball bearings



PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	35 mm
D - External diameter	80 mm
B - Bearing/Inner ring width	21 mm
rs - Min fillet radius	1,5 mm
Radial clearance class	C3
Mass	0,457 kg

PRODUCT PERFORMANCE

C - Dynamic load	37000000 mN
C0 - Static load	19100000 mN
Cu - Fatigue limit load	1470000 mN
f0 - Coefficient	13.1
N lim - Grease lubrication limit speed	36000 °/s



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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	43 mm
da max - Max shoulder diameter IR	47 mm
Da max - Max shoulder diameter OR	72 mm
ra max - Max shaft & housing fillet radius	1,5 mm

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 $P_0 < Fr$, then use $P_0 = Fr$



NTN Europe

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