



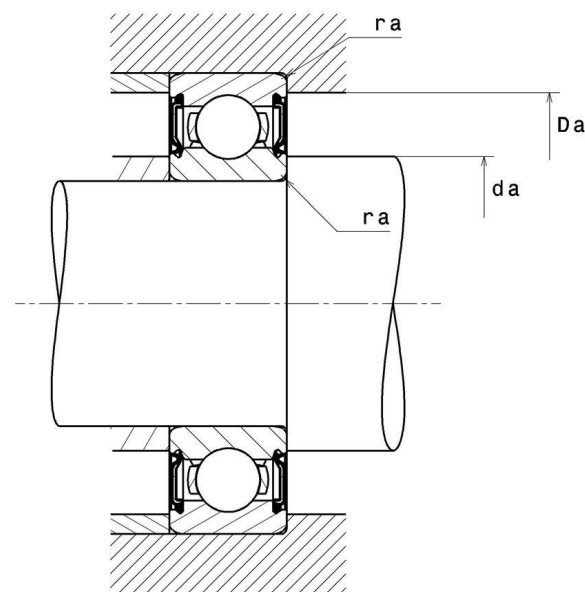
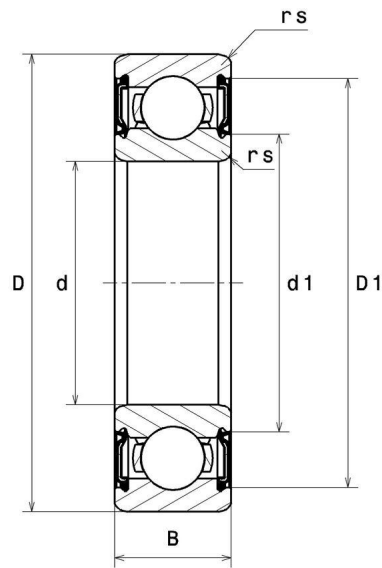
Technical data

6003LLUC3/5K

Single row deep groove ball bearings

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

VISUAL (S)



6003LLUC3/5K

Single row deep groove ball bearings

PRODUCT DEFINITION

| | |
|-------------------------------------|----------|
| Brand | NTN |
| d - Internal diameter | 17 mm |
| D - External diameter | 35 mm |
| B - Bearing/Inner ring width | 10 mm |
| rs - Min fillet radius | 0,3 mm |
| Radial clearance class | C3 |
| Mass | 0,039 kg |

PRODUCT PERFORMANCE

| | |
|---|--------------|
| C - Dynamic load | 7,55 kN |
| C0 - Static load | 3,35 kN |
| Cu - Fatigue limit load | 0,243 kN |
| f0 - Coefficient | 13.6 |
| N lim - Grease lubrication limit speed | 14000 tr/min |
| Tmin - Min operating temperature | -25 °C |
| Tmax - Max operating temperature | 110 °C |

ABUTMENT

| | |
|---|--------|
| da min - Min shoulder diameter IR | 19 mm |
| da max - Max shoulder diameter IR | 21 mm |
| Da max - Max shoulder diameter OR | 33 mm |
| ra max - Max shaft & housing fillet radius | 0,3 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 $P_0 = Fr$

