



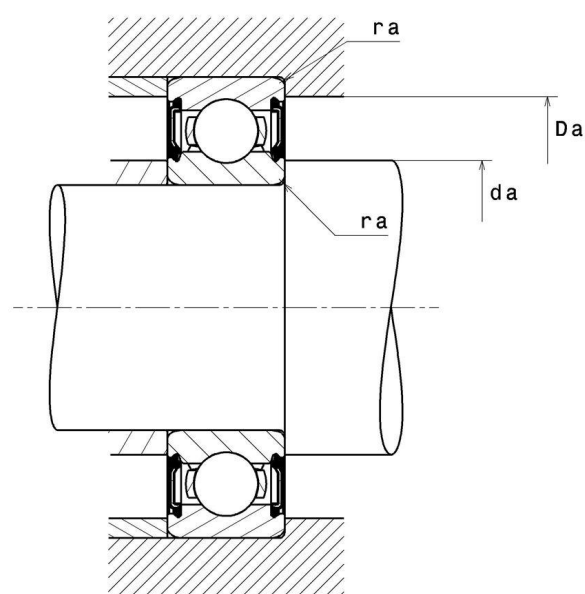
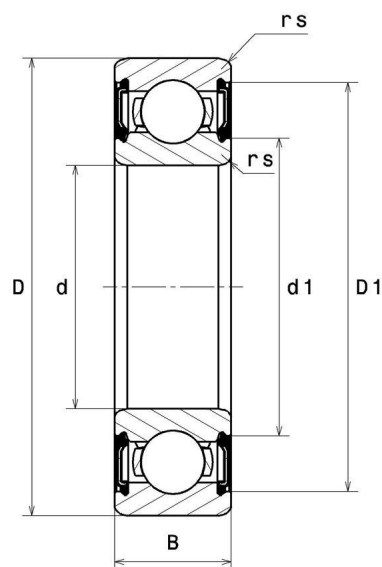
## Technical data

### 6009LLBC3/5K

Single row deep groove ball bearings

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

#### VISUAL (S)



# 6009LLBC3/5K

Single row deep groove ball bearings

## PRODUCT DEFINITION

|                              |          |
|------------------------------|----------|
| Brand                        | NTN      |
| d - Internal diameter        | 45 mm    |
| D - External diameter        | 75 mm    |
| B - Bearing/Inner ring width | 16 mm    |
| rs - Min fillet radius       | 1 mm     |
| Radial clearance class       | C3       |
| Mass                         | 0,237 kg |

## PRODUCT PERFORMANCE

|                                        |             |
|----------------------------------------|-------------|
| C - Dynamic load                       | 23200000 mN |
| C0 - Static load                       | 15100000 mN |
| Cu - Fatigue limit load                | 1160000 mN  |
| f0 - Coefficient                       | 15.3        |
| N lim - Grease lubrication limit speed | 55200 °/s   |
| Tmin - Min operating temperature       | 248,15 °K   |
| Tmax - Max operating temperature       | 383,15 °K   |

## ABUTMENT

|                                            |         |
|--------------------------------------------|---------|
| da min - Min shoulder diameter IR          | 50 mm   |
| da max - Max shoulder diameter IR          | 52,5 mm |
| Da max - Max shoulder diameter OR          | 70 mm   |
| ra max - Max shaft & housing fillet radius | 1 mm    |



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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

$P = X.Fr + Y.Fa$

| $\frac{f_0 F_a}{C_0}$ | 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  $P_0 = Fr$