



## Technical data

### NU311C3

Single row cylindrical roller bearings

Single row cylindrical roller bearing, floating, separable, pressed steel cage

#### VISUAL (S)



# NU311C3

Single row cylindrical roller bearings

## PRODUCT DEFINITION

|                                     |          |
|-------------------------------------|----------|
| <b>Brand</b>                        | NTN      |
| <b>d - Internal diameter</b>        | 55 mm    |
| <b>D - External diameter</b>        | 120 mm   |
| <b>B - Bearing/Inner ring width</b> | 29 mm    |
| <b>E - Upper roller diameter</b>    | 104,5 mm |
| <b>F - Under roller diameter</b>    | 70,5 mm  |
| <b>rs - Min fillet radius</b>       | 2 mm     |
| <b>r1s - Min fillet radius</b>      | 2 mm     |
| <b>Radial clearance class</b>       | C3       |
| <b>Mass</b>                         | 1,45 kg  |

## PRODUCT PERFORMANCE

|                                               |              |
|-----------------------------------------------|--------------|
| <b>C - Dynamic load</b>                       | 123000000 mN |
| <b>C0 - Static load</b>                       | 111000000 mN |
| <b>Cu - Fatigue limit load</b>                | 13600000 mN  |
| <b>N lim - Oil lubrication limit speed</b>    | 42000 °/s    |
| <b>N lim - Grease lubrication limit speed</b> | 35400 °/s    |
| <b>Tmin - Min operating temperature</b>       | 233,15 °K    |
| <b>Tmax - Max operating temperature</b>       | 393,15 °K    |

## ABUTMENT

|                                                  |        |
|--------------------------------------------------|--------|
| <b>da min - Min shoulder diameter IR</b>         | 64 mm  |
| <b>da max - Small face shoulder max diameter</b> | 69 mm  |
| <b>db min - Min inner ring GO diameter</b>       | 72 mm  |
| <b>Da max - Max shoulder diameter OR</b>         | 111 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  
 SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

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## ABUTMENT

|                                   |      |
|-----------------------------------|------|
| <b>ra max - Max fillet radius</b> | 2 mm |
| <b>r1a - Max fillet radius</b>    | 2 mm |

## INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$



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