



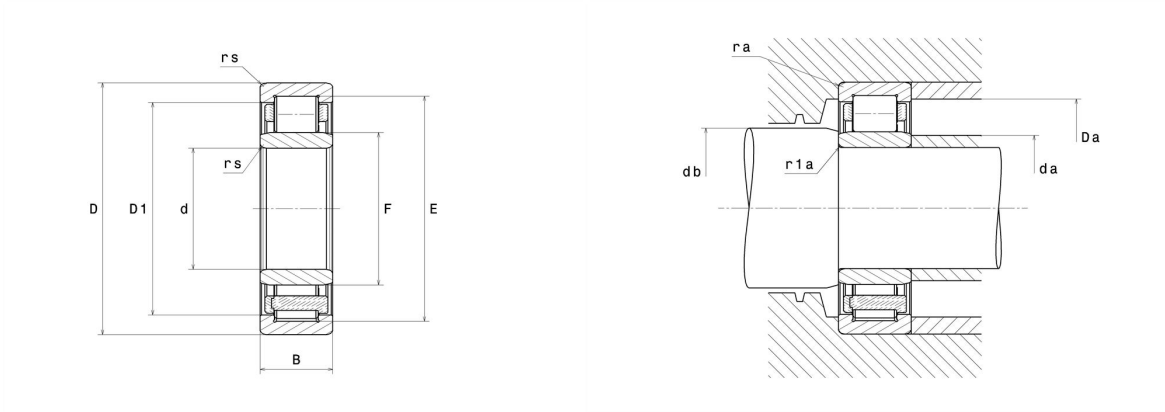
## Technical datasheet

### NU313EG1

Single row cylindrical roller bearings

Single row cylindrical roller bearing, floating, separable, brass cage

#### Visual(s)



#### Product definition

|                               |          |
|-------------------------------|----------|
| <b>d</b>                      | 65 mm    |
| <b>D</b>                      | 140 mm   |
| <b>B</b>                      | 33 mm    |
| <b>E</b>                      | 124.5 mm |
| <b>F</b>                      | 82.5 mm  |
| <b>rs min</b>                 | 2.1 mm   |
| <b>r1s min</b>                | 2.1 mm   |
| <b>Radial clearance class</b> | CN       |
| <b>Mass (without HJ ring)</b> | 2.44 kg  |
| <b>Brand</b>                  | NTN      |

#### Product performance

|                                                      |           |
|------------------------------------------------------|-----------|
| <b>Dynamic load, C</b>                               | 181 kN    |
| <b>Static load, C0</b>                               | 191 kN    |
| <b>Fatigue limit load, Cu</b>                        | 23.1 kN   |
| <b>Nlim (oil)</b>                                    | 5,400 rpm |
| <b>Nlim (grease)</b>                                 | 4,600 rpm |
| <b>Min operating temperature, Tmin</b>               | -40 °C    |
| <b>Max operating temperature, Tmax</b>               | 120 °C    |
| <b>Characteristic cage frequency, FTF</b>            | 0.4 Hz    |
| <b>Characteristic rolling element frequency, BSF</b> | 4.73 Hz   |
| <b>Characteristic outer ring frequency, BPF0</b>     | 5.18 Hz   |
| <b>Characteristic inner ring frequency, BPF1</b>     | 7.82 Hz   |

## Abutment dimensions

|                |        |
|----------------|--------|
| <b>da min</b>  | 76 mm  |
| <b>da max</b>  | 81 mm  |
| <b>db min</b>  | 85 mm  |
| <b>Da max</b>  | 129 mm |
| <b>ra max</b>  | 2 mm   |
| <b>r1a max</b> | 2 mm   |

## Calculation factors

Equivalent dynamic radial load

$$P = F_r$$

Equivalent static radial load

$$P_0 = F_r$$