



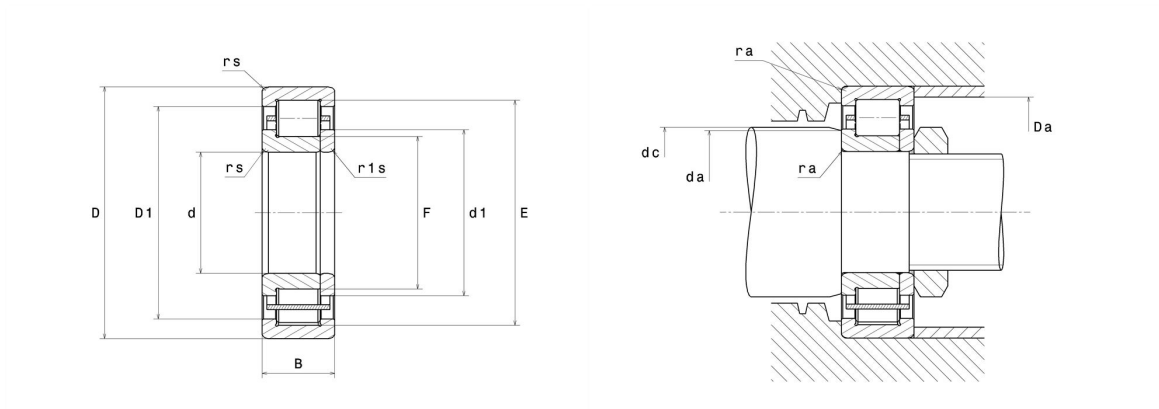
## Technical data

### NUP313U

Single row cylindrical roller bearings

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

## Visual(s)



## Product definition

|                               |          |
|-------------------------------|----------|
| <b>d</b>                      | 65 mm    |
| <b>D</b>                      | 140 mm   |
| <b>B</b>                      | 33 mm    |
| <b>E</b>                      | 121.5 mm |
| <b>F</b>                      | 83.5 mm  |
| <b>d1</b>                     | 91 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> | 2.3 kg   |
| <b>Brand</b>                  | NTN      |

## Product performance

|                                                      |              |
|------------------------------------------------------|--------------|
| <b>Dynamic load, C</b>                               | 135 kN       |
| <b>Static load, C0</b>                               | 139 kN       |
| <b>Fatigue limit load, Cu</b>                        | 16.8 kN      |
| <b>Nlim (oil)</b>                                    | 6,000 Tr/min |
| <b>Nlim (grease)</b>                                 | 5,100 Tr/min |
| <b>Min operating temperature, Tmin</b>               | -40 °C       |
| <b>Max operating temperature, Tmax</b>               | 120 °C       |
| <b>Characteristic cage frequency, FTF</b>            | 0.41 Hz      |
| <b>Characteristic rolling element frequency, BSF</b> | 5.21 Hz      |
| <b>Characteristic outer ring frequency, BPF0</b>     | 4.89 Hz      |
| <b>Characteristic inner ring frequency, BPFI</b>     | 7.11 Hz      |

## Abutment dimensions

|               |        |
|---------------|--------|
| <b>da min</b> | 76 mm  |
| <b>dc min</b> | 93 mm  |
| <b>Da max</b> | 129 mm |
| <b>ra max</b> | 2 mm   |

## Calculation factors

### Equivalent dynamic radial load

$$P = Fr$$

### Equivalent static radial load

$$Po = Fr$$