



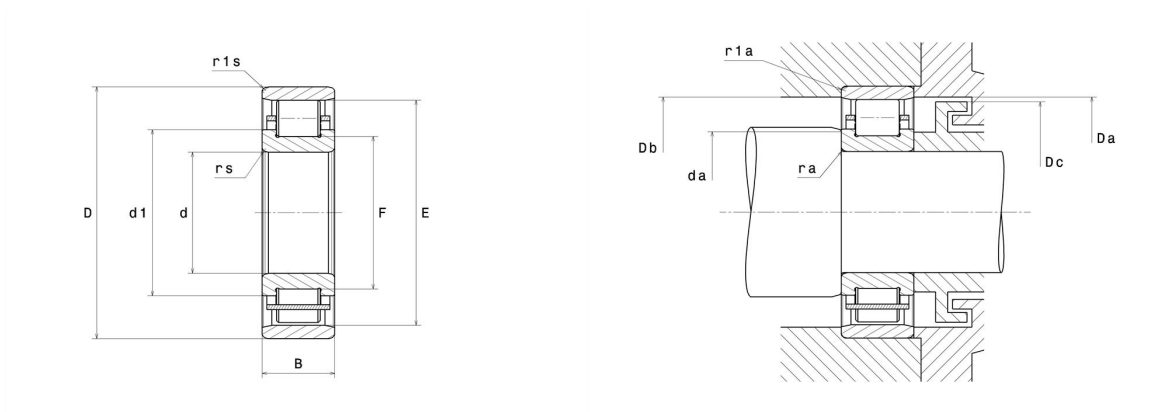
## Technical datasheet

### N321

Single row cylindrical roller bearings

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

#### Visual(s)



#### Product definition

|                               |         |
|-------------------------------|---------|
| <b>d</b>                      | 105 mm  |
| <b>D</b>                      | 225 mm  |
| <b>B</b>                      | 49 mm   |
| <b>E</b>                      | 195 mm  |
| <b>F</b>                      | 135 mm  |
| <b>d1</b>                     | 147 mm  |
| <b>rs min</b>                 | 3 mm    |
| <b>r1s min</b>                | 3 mm    |
| <b>Radial clearance class</b> | CN      |
| <b>Mass (without HJ ring)</b> | 8.86 kg |
| <b>Brand</b>                  | NTN     |

## Product performance

|                                                      |           |
|------------------------------------------------------|-----------|
| <b>Dynamic load, C</b>                               | 320 kN    |
| <b>Static load, C0</b>                               | 360 kN    |
| <b>Fatigue limit load, Cu</b>                        | 37.8 kN   |
| <b>Nlim (oil)</b>                                    | 3,700 rpm |
| <b>Nlim (grease)</b>                                 | 3,100 rpm |
| <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> | 5.32 Hz   |
| <b>Characteristic outer ring frequency, BPF0</b>     | 5.73 Hz   |
| <b>Characteristic inner ring frequency, BPFI</b>     | 8.27 Hz   |

## Abutment dimensions

|                |        |
|----------------|--------|
| <b>da min</b>  | 118 mm |
| <b>Da max</b>  | 212 mm |
| <b>Db min</b>  | 198 mm |
| <b>Dc max</b>  | 193 mm |
| <b>ra max</b>  | 2.5 mm |
| <b>r1a max</b> | 2.5 mm |

## Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$Po = Fr$$