



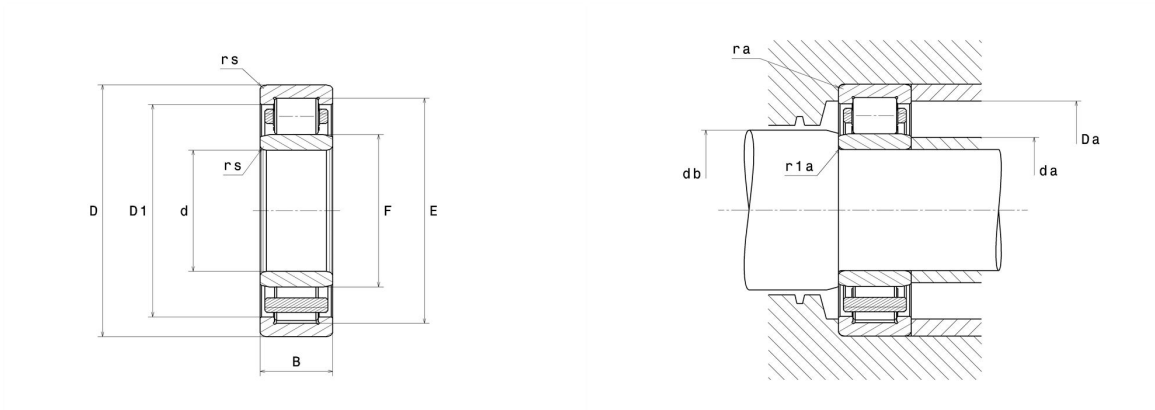
## Technical datasheet

### NU320ET2

Single row cylindrical roller bearings

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

#### Visual(s)



#### Product definition

|                               |          |
|-------------------------------|----------|
| <b>d</b>                      | 100 mm   |
| <b>D</b>                      | 215 mm   |
| <b>B</b>                      | 47 mm    |
| <b>E</b>                      | 191.5 mm |
| <b>F</b>                      | 127.5 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> | 0.8 kg   |
| <b>Brand</b>                  | NTN      |

#### Product performance

|                                                      |           |
|------------------------------------------------------|-----------|
| <b>Dynamic load, C</b>                               | 380 kN    |
| <b>Static load, C0</b>                               | 425 kN    |
| <b>Fatigue limit load, Cu</b>                        | 45.2 kN   |
| <b>Nlim (oil)</b>                                    | 3,500 rpm |
| <b>Nlim (grease)</b>                                 | 2,900 rpm |
| <b>Min operating temperature, Tmin</b>               | -20 °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> | 4.78 Hz   |
| <b>Characteristic outer ring frequency, BPF0</b>     | 5.2 Hz    |
| <b>Characteristic inner ring frequency, BPF1</b>     | 7.8 Hz    |

## Abutment dimensions

|                |        |
|----------------|--------|
| <b>da min</b>  | 113 mm |
| <b>da max</b>  | 125 mm |
| <b>db min</b>  | 132 mm |
| <b>Da max</b>  | 202 mm |
| <b>ra max</b>  | 2.5 mm |
| <b>r1a max</b> | 2.5 mm |

## Calculation factors

Equivalent dynamic radial load

$$P = F_r$$

Equivalent static radial load

$$P_0 = F_r$$