



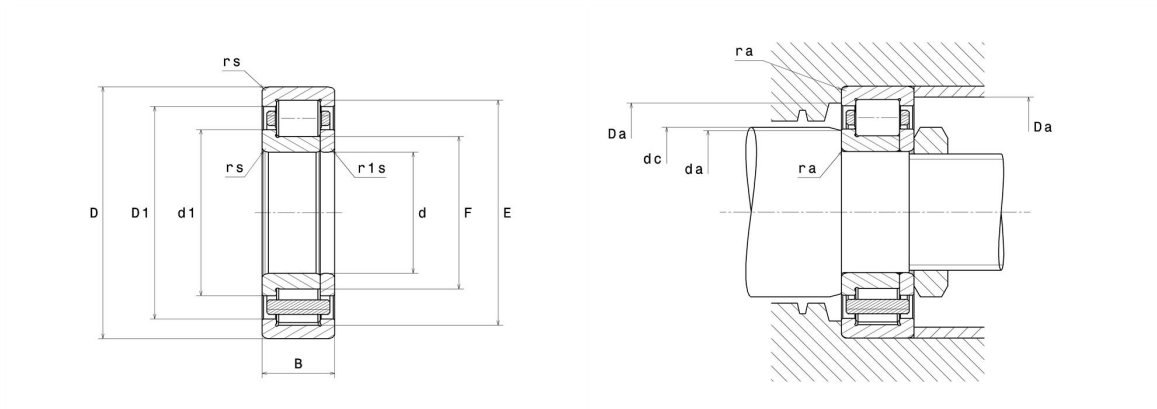
## Technical data

### NUP205ET2XC3U

Single row cylindrical roller bearings

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

## Visual(s)



## Product definition

|                               |         |
|-------------------------------|---------|
| <b>d</b>                      | 25 mm   |
| <b>D</b>                      | 52 mm   |
| <b>B</b>                      | 15 mm   |
| <b>E</b>                      | 46.5 mm |
| <b>F</b>                      | 31.5 mm |
| <b>d1</b>                     | 34.5 mm |
| <b>rs min</b>                 | 1 mm    |
| <b>r1s min</b>                | 0.6 mm  |
| <b>Radial clearance class</b> | C3      |
| <b>Mass (without HJ ring)</b> | 0.14 kg |
| <b>Brand</b>                  | NTN     |

## Product performance

|                                                      |               |
|------------------------------------------------------|---------------|
| <b>Dynamic load, C</b>                               | 29.3 kN       |
| <b>Static load, C0</b>                               | 27.7 kN       |
| <b>Fatigue limit load, Cu</b>                        | 3.4 kN        |
| <b>Nlim (oil)</b>                                    | 15,000 Tr/min |
| <b>Nlim (grease)</b>                                 | 13,000 Tr/min |
| <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> | 5.01 Hz       |
| <b>Characteristic outer ring frequency, BPF0</b>     | 5.25 Hz       |
| <b>Characteristic inner ring frequency, BPFI</b>     | 7.75 Hz       |

## Abutment dimensions

|               |       |
|---------------|-------|
| <b>da min</b> | 30 mm |
| <b>dc min</b> | 37 mm |
| <b>Da max</b> | 47 mm |
| <b>ra max</b> | 1 mm  |

## Calculation factors

### Equivalent dynamic radial load

$$P = Fr$$

### Equivalent static radial load

$$Po = Fr$$