



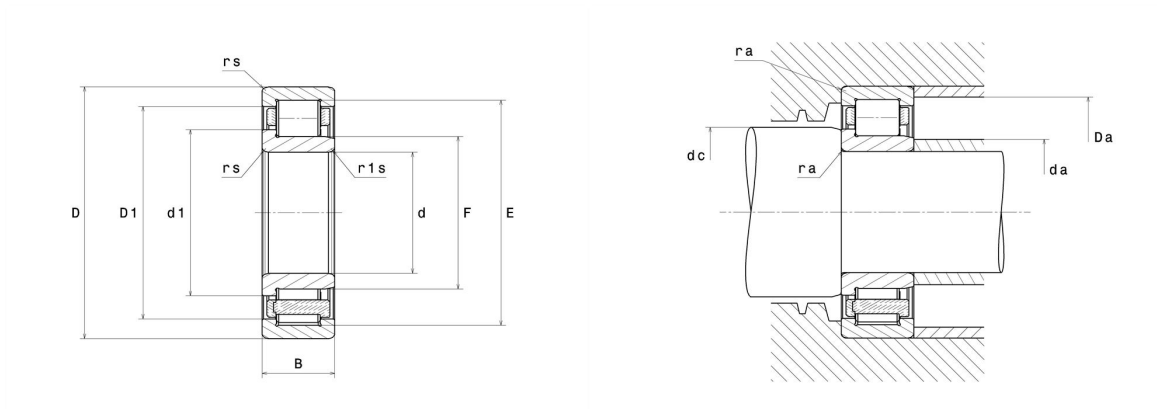
## Technical datasheet

### NJ414G1C3

Single row cylindrical roller bearings

Single row cylindrical roller bearing, single direction for axial loads, separable, brass cage.

#### Visual(s)



#### Product definition

|                               |          |
|-------------------------------|----------|
| <b>d</b>                      | 70 mm    |
| <b>D</b>                      | 180 mm   |
| <b>B</b>                      | 42 mm    |
| <b>E</b>                      | 152 mm   |
| <b>F</b>                      | 100 mm   |
| <b>d1</b>                     | 110.5 mm |
| <b>rs min</b>                 | 3 mm     |
| <b>r1s min</b>                | 3 mm     |
| <b>Radial clearance class</b> | C3       |
| <b>Mass (without HJ ring)</b> | 5.81 kg  |
| <b>Brand</b>                  | NTN      |

## Product performance

|                                                      |           |
|------------------------------------------------------|-----------|
| <b>Dynamic load, C</b>                               | 228 kN    |
| <b>Static load, C0</b>                               | 236 kN    |
| <b>Fatigue limit load, Cu</b>                        | 26.9 kN   |
| <b>Nlim (oil)</b>                                    | 4,000 rpm |
| <b>Nlim (grease)</b>                                 | 3,400 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> | 4.64 Hz   |
| <b>Characteristic outer ring frequency, BPF0</b>     | 4.36 Hz   |
| <b>Characteristic inner ring frequency, BPFI</b>     | 6.64 Hz   |

## Abutment dimensions

|               |        |
|---------------|--------|
| <b>da min</b> | 83 mm  |
| <b>da max</b> | 99 mm  |
| <b>dc min</b> | 112 mm |
| <b>Da max</b> | 167 mm |
| <b>ra max</b> | 2.5 mm |

## Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$Po = Fr$$