



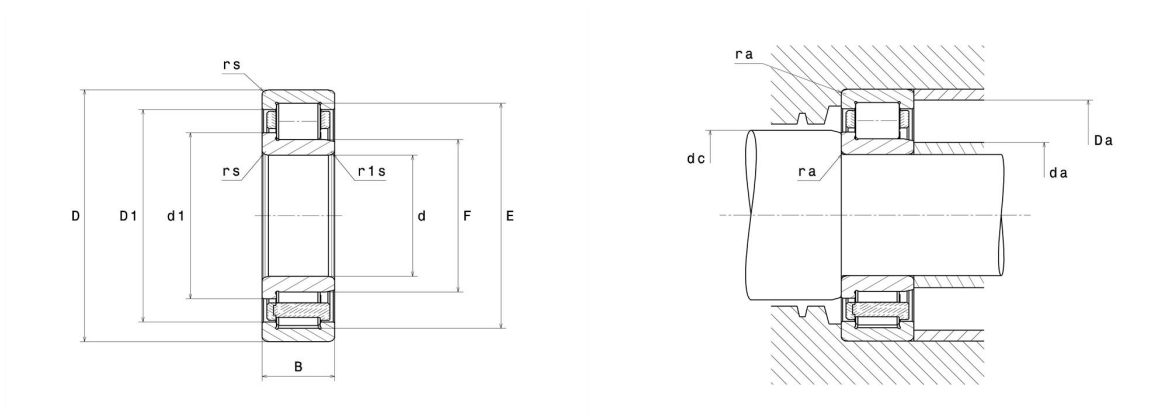
## Technical data

### NJ311EG1

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>                      | 55 mm    |
| <b>D</b>                      | 120 mm   |
| <b>B</b>                      | 29 mm    |
| <b>E</b>                      | 106.5 mm |
| <b>F</b>                      | 70.5 mm  |
| <b>d1</b>                     | 77.7 mm  |
| <b>rs min</b>                 | 2 mm     |
| <b>r1s min</b>                | 2 mm     |
| <b>Radial clearance class</b> | CN       |
| <b>Mass (without HJ ring)</b> | 1.58 kg  |
| <b>Brand</b>                  | NTN      |

## Product performance

|                                                      |              |
|------------------------------------------------------|--------------|
| <b>Dynamic load, C</b>                               | 137 kN       |
| <b>Static load, C0</b>                               | 143 kN       |
| <b>Fatigue limit load, Cu</b>                        | 17.4 kN      |
| <b>Nlim (oil)</b>                                    | 6,300 Tr/min |
| <b>Nlim (grease)</b>                                 | 5,300 Tr/min |
| <b>Min operating temperature, Tmin</b>               | -40 °C       |
| <b>Max operating temperature, Tmax</b>               | 120 °C       |
| <b>Characteristic cage frequency, FTF</b>            | 0.4 Hz       |
| <b>Characteristic rolling element frequency, BSF</b> | 4.71 Hz      |
| <b>Characteristic outer ring frequency, BPF0</b>     | 5.18 Hz      |
| <b>Characteristic inner ring frequency, BPFI</b>     | 7.82 Hz      |

## Abutment dimensions

|               |        |
|---------------|--------|
| <b>da min</b> | 64 mm  |
| <b>da max</b> | 69 mm  |
| <b>dc min</b> | 80 mm  |
| <b>Da max</b> | 111 mm |
| <b>ra max</b> | 2 mm   |

## Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$Po = Fr$$