



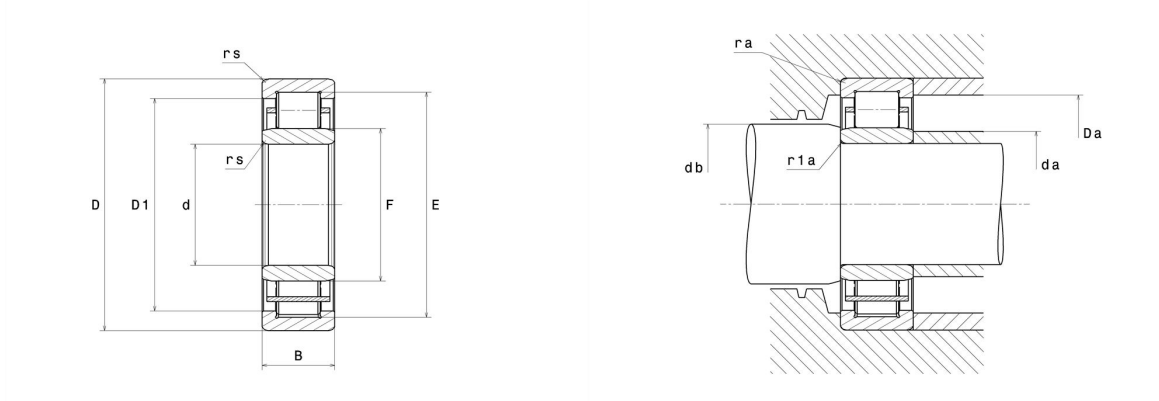
## Technical data

### NU319C3

Single row cylindrical roller bearings

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

#### Visual(s)



#### Product definition

<b>d</b>	95 mm
<b>D</b>	200 mm
<b>B</b>	45 mm
<b>E</b>	173.5 mm
<b>F</b>	121.5 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>	6.32 kg
<b>Brand</b>	NTN

#### Product performance

<b>Dynamic load, C</b>	259 kN
<b>Static load, C0</b>	285 kN
<b>Fatigue limit load, Cu</b>	30.9 kN
<b>Nlim (oil)</b>	4,000 Tr/min
<b>Nlim (grease)</b>	3,400 Tr/min
<b>Min operating temperature, Tmin</b>	-40 °C
<b>Max operating temperature, Tmax</b>	120 °C
<b>Characteristic cage frequency, FTF</b>	0.41 Hz
<b>Characteristic rolling element frequency, BSF</b>	5.5 Hz
<b>Characteristic outer ring frequency, BPF0</b>	5.35 Hz
<b>Characteristic inner ring frequency, BPF1</b>	7.65 Hz

## Abutment dimensions

<b>da min</b>	108 mm
<b>da max</b>	119 mm
<b>db min</b>	124 mm
<b>Da max</b>	187 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

$$P_0 = Fr$$