# Technical data

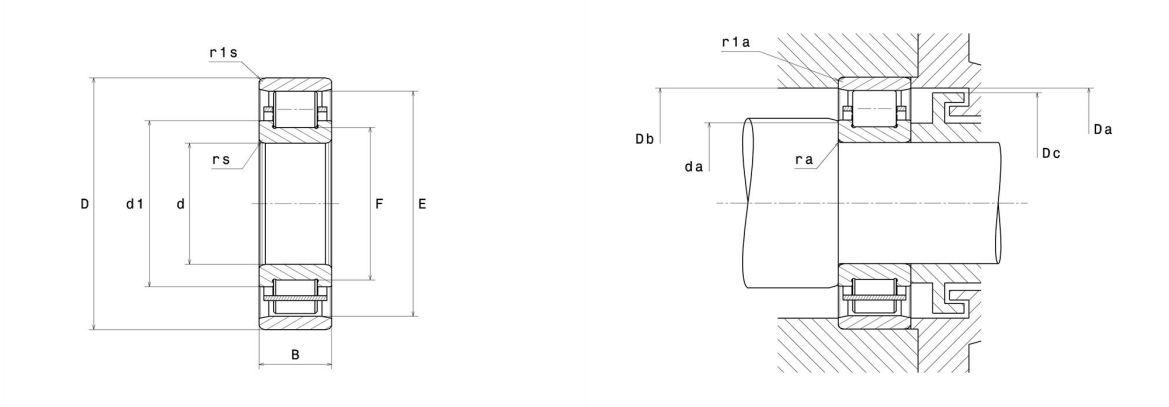
## N224

Single row cylindrical roller bearings



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

## Visual(s)




## Product definition

| | |
|---|---|
| **d** | 120 mm |
| **D** | 215 mm |
| **B** | 40 mm |
| **E** | 191.5 mm |
| **F** | 143.5 mm |
| **d1** | 153 mm |
| **rs min** | 2.1 mm |
| **r1s min** | 2.1 mm |
| **Radial clearance class** | CN |
| **Mass (without HJ ring)** | 5.6 kg |
| **Brand** | NTN |

## Product performance

| | |
|---|---|
| **Dynamic load, C** | 260 kN |
| **Static load, C0** | 320 kN |
| **Fatigue limit load, Cu** | 33.4 kN |
| **Nlim (oil)** | 3,700 Tr/min |
| **Nlim (grease)** | 3,200 Tr/min |
| **Min operating temperature, Tmin** | -40 °C |
| **Max operating temperature, Tmax** | 120 °C |
| **Characteristic cage frequency, FTF** | 0.43 Hz |
| **Characteristic rolling element frequency, BSF** | 6.84 Hz |
| **Characteristic outer ring frequency, BPF0** | 6.85 Hz |
| **Characteristic inner ring frequency, BPFI** | 9.15 Hz |

## Abutment dimensions

| | |
|---|---|
| **da min** | 131 mm |
| **Da max** | 204 mm |
| **Db min** | 194 mm |
| **Dc max** | 189 mm |
| **ra max** | 2 mm |
| **r1a max** | 2 mm |

## Calculation factors

Equivalent dynamic radial load

$P = Fr$

Equivalent static radial load

$P_0 = Fr$