

## PDF technical sheet

# NU221



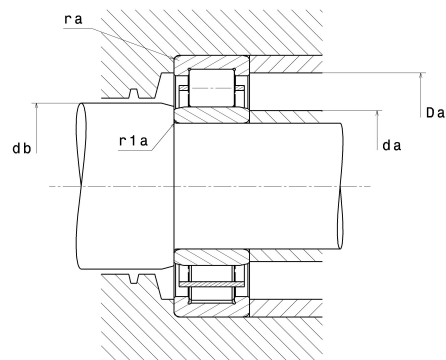
### Single row cylindrical roller bearings

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

| Product definition     |          |
|------------------------|----------|
| d                      | 4.1339 " |
| D                      | 7.4803 " |
| B                      | 1.4173 " |
| E                      | 6.6457 " |
| F                      | 4.9921 " |
| rs min                 | 0.0827 " |
| r1s min                | 0.0827 " |
| Radial clearance class | CN       |
| Mass (without HJ ring) | 14.66 oz |
| Brand                  | NTN      |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 201 kN    |
| Static load, C0                               | 241 kN    |
| Fatigue limit load, Cu                        | 26.20 kN  |
| Nlim (oil)                                    | 4,300 RPM |
| Nlim (grease)                                 | 3,600 RPM |
| Min operating temperature, Tmin               | -40 °C    |
| Max operating temperature, Tmax               | 248 °C    |
| Characteristic cage frequency, FTF            | 0.43 Hz   |
| Characteristic rolling element frequency, BSF | 6.90 Hz   |
| Characteristic outer ring frequency, BPF0     | 6.86 Hz   |
| Characteristic inner ring frequency, BPF1     | 9.14 Hz   |



| Abutment dimensions |          |
|---------------------|----------|
| da min              | 4.5669 " |
| da max              | 4.8819 " |
| db min              | 5.0787 " |
| Da max              | 7.0472 " |
| ra max              | 0.0787 " |
| r1a max             | 0.0787 " |

### Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$