

# PDF technical sheet

## NUP310EX4T2XU



### Single row cylindrical roller bearings

Single row cylindrical roller bearing, locating, separable, polyamide cage

| Product definition     |          |
|------------------------|----------|
| d                      | 1.9685 " |
| D                      | 4.3307 " |
| B                      | 1.0630 " |
| E                      | 3.8189 " |
| F                      | 2.5591 " |
| d1                     | 2.8110 " |
| rs min                 | 0.0787 " |
| r1s min                | 0.0787 " |
| Radial clearance class | CN       |
| Mass (without HJ ring) | 4.18 oz  |
| Brand                  | NTN      |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 110 kN    |
| Static load, C0                               | 113 kN    |
| Fatigue limit load, Cu                        | 13.80 kN  |
| Nlim (oil)                                    | 6,900 RPM |
| Nlim (grease)                                 | 5,900 RPM |
| Min operating temperature, Tmin               | -40 °C    |
| Max operating temperature, Tmax               | 248 °C    |
| Characteristic cage frequency, FTF            | 0.40 Hz   |
| Characteristic rolling element frequency, BSF | 4.87 Hz   |
| Characteristic outer ring frequency, BPF0     | 5.22 Hz   |
| Characteristic inner ring frequency, BPF1     | 7.78 Hz   |



| Abutment dimensions |          |
|---------------------|----------|
| da min              | 2.3228 " |
| dc min              | 2.8740 " |
| Da max              | 3.9764 " |
| ra max              | 0.0787 " |

### Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$Po = Fr$$