

## PDF technical sheet NUP2310G1C3U



### Single row cylindrical roller bearings

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

| Product definition     |          |
|------------------------|----------|
| d                      | 1.9685 " |
| D                      | 4.3307 " |
| B                      | 1.5748 " |
| E                      | 3.7402 " |
| F                      | 2.5591 " |
| d1                     | 2.7953 " |
| rs min                 | 0.0787 " |
| r1s min                | 0.0787 " |
| Radial clearance class | C3       |
| Mass (without HJ ring) | 6.62 oz  |
| Brand                  | NTN      |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 121 kN    |
| Static load, C0                               | 131 kN    |
| Fatigue limit load, Cu                        | 16 kN     |
| Nlim (oil)                                    | 6,700 RPM |
| Nlim (grease)                                 | 5,700 RPM |
| Min operating temperature, Tmin               | -40 °C    |
| Max operating temperature, Tmax               | 248 °C    |
| Characteristic cage frequency, FTF            | 0.41 Hz   |
| Characteristic rolling element frequency, BSF | 5.15 Hz   |
| Characteristic outer ring frequency, BPF0     | 4.88 Hz   |
| Characteristic inner ring frequency, BPF1     | 7.13 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

$$P = F_r$$

Equivalent static radial load

$$P_0 = F_r$$