

## PDF technical sheet NU305ET2XC4



### Single row cylindrical roller bearings

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

| Product definition     |          |
|------------------------|----------|
| d                      | 0.9843 " |
| D                      | 2.4409 " |
| B                      | 0.6693 " |
| E                      | 2.1260 " |
| F                      | 1.3386 " |
| rs min                 | 0.0433 " |
| r1s min                | 0.0433 " |
| Radial clearance class | C4       |
| Mass (without HJ ring) | 0.83 oz  |
| Brand                  | NTN      |



| Product performance                           |            |
|-----------------------------------------------|------------|
| Dynamic load, C                               | 41.50 kN   |
| Static load, C0                               | 37.50 kN   |
| Fatigue limit load, Cu                        | 4.55 kN    |
| Nlim (oil)                                    | 13,000 RPM |
| Nlim (grease)                                 | 11,000 RPM |
| Min operating temperature, Tmin               | -40 °C     |
| Max operating temperature, Tmax               | 248 °C     |
| Characteristic cage frequency, FTF            | 0.39 Hz    |
| Characteristic rolling element frequency, BSF | 4.17 Hz    |
| Characteristic outer ring frequency, BPF0     | 4.25 Hz    |
| Characteristic inner ring frequency, BPF1     | 6.75 Hz    |



| Abutment dimensions |          |
|---------------------|----------|
| da min              | 1.2402 " |
| da max              | 1.2992 " |
| db min              | 1.4567 " |
| Da max              | 2.1850 " |
| ra max              | 0.0394 " |
| r1a max             | 0.0394 " |

### Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$