

## PDF technical sheet NUP209ET2C3



### Single row cylindrical roller bearings

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

| Product definition     |          |
|------------------------|----------|
| d                      | 1.7717 " |
| D                      | 3.3465 " |
| B                      | 0.7480 " |
| E                      | 3.0118 " |
| F                      | 2.1457 " |
| d1                     | 2.3189 " |
| rs min                 | 0.0433 " |
| r1s min                | 0.0433 " |
| Radial clearance class | C3       |
| Mass (without HJ ring) | 1.56 oz  |
| Brand                  | NTN      |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 63 kN     |
| Static load, C0                               | 66.50 kN  |
| Fatigue limit load, Cu                        | 8.10 kN   |
| Nlim (oil)                                    | 9,000 RPM |
| Nlim (grease)                                 | 7,600 RPM |
| Min operating temperature, Tmin               | -40 °C    |
| Max operating temperature, Tmax               | 248 °C    |
| Characteristic cage frequency, FTF            | 0.42 Hz   |
| Characteristic rolling element frequency, BSF | 5.79 Hz   |
| Characteristic outer ring frequency, BPF0     | 6.24 Hz   |
| Characteristic inner ring frequency, BPF1     | 8.76 Hz   |



| Abutment dimensions |          |
|---------------------|----------|
| da min              | 2.0276 " |
| dc min              | 2.4016 " |
| Da max              | 3.0906 " |
| ra max              | 0.0394 " |

#### Calculation factors

Equivalent dynamic radial load

$$P = F_r$$

Equivalent static radial load

$$P_0 = F_r$$