

## PDF technical sheet NJ309C3



### Single row cylindrical roller bearings

Single row cylindrical roller bearing, single direction for axial loads, separable, pressed steel cage.

| Product definition     |          |
|------------------------|----------|
| d                      | 1.7717 " |
| D                      | 3.9370 " |
| B                      | 0.9843 " |
| E                      | 3.4055 " |
| F                      | 2.3031 " |
| d1                     | 2.5197 " |
| rs min                 | 0.0591 " |
| r1s min                | 0.0591 " |
| Radial clearance class | C3       |
| Mass (without HJ ring) | 3.10 oz  |
| Brand                  | NTN      |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 74 kN     |
| Static load, C0                               | 71 kN     |
| Fatigue limit load, Cu                        | 8.70 kN   |
| Nlim (oil)                                    | 8,400 RPM |
| Nlim (grease)                                 | 7,200 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 | 4.99 Hz   |
| Characteristic outer ring frequency, BPF0     | 4.44 Hz   |
| Characteristic inner ring frequency, BPF1     | 6.56 Hz   |



| Abutment dimensions |          |
|---------------------|----------|
| da min              | 2.0866 " |
| da max              | 2.2441 " |
| dc min              | 2.5984 " |
| Da max              | 3.6220 " |
| ra max              | 0.0591 " |

### Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$