

## PDF technical sheet NU1011



### Single row cylindrical roller bearings

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

| Product definition     |          |
|------------------------|----------|
| d                      | 2.1654 " |
| D                      | 3.5433 " |
| B                      | 0.7087 " |
| E                      | 3.1693 " |
| F                      | 2.5394 " |
| rs min                 | 0.0433 " |
| r1s min                | 0.0394 " |
| Radial clearance class | CN       |
| Mass (without HJ ring) | 1.51 oz  |
| Brand                  | NTN      |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 37.50 kN  |
| Static load, C0                               | 44 kN     |
| Fatigue limit load, Cu                        | 5.40 kN   |
| Nlim (oil)                                    | 9,700 RPM |
| Nlim (grease)                                 | 8,200 RPM |
| Min operating temperature, Tmin               | -40 °C    |
| Max operating temperature, Tmax               | 248 °C    |
| Characteristic cage frequency, FTF            | 0.45 Hz   |
| Characteristic rolling element frequency, BSF | 8.95 Hz   |
| Characteristic outer ring frequency, BPF0     | 8.90 Hz   |
| Characteristic inner ring frequency, BPFI     | 11.10 Hz  |



| Abutment dimensions |          |
|---------------------|----------|
| da min              | 2.3622 " |
| da max              | 2.4803 " |
| db min              | 2.5984 " |
| Da max              | 3.2874 " |
| ra max              | 0.0394 " |
| r1a max             | 0.0394 " |

### Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$