

## PDF technical sheet

### NJ238



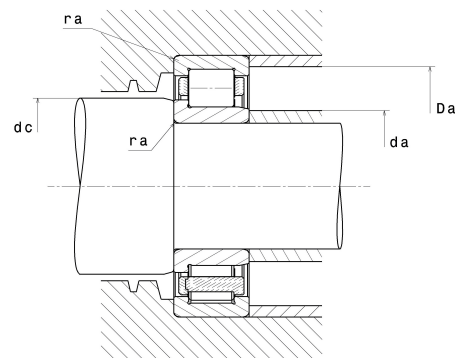
## Single row cylindrical roller bearings

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

| Product definition     |           |
|------------------------|-----------|
| d                      | 7.4803 "  |
| D                      | 13.3858 " |
| B                      | 2.1654 "  |
| E                      | 11.7717 " |
| F                      | 9.0945 "  |
| d1                     | 9.6260 "  |
| rs min                 | 0.1575 "  |
| r1s min                | 0.1575 "  |
| Radial clearance class | CN        |
| Mass (without HJ ring) | 76.90 oz  |
| Brand                  | NTN       |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 555 kN    |
| Static load, C0                               | 770 kN    |
| Fatigue limit load, Cu                        | 70.10 kN  |
| Nlim (oil)                                    | 2,200 RPM |
| Nlim (grease)                                 | 1,900 RPM |
| Min operating temperature, Tmin               | -40 °C    |
| Max operating temperature, Tmax               | 248 °C    |
| Characteristic cage frequency, FTF            | 0.44 Hz   |
| Characteristic rolling element frequency, BSF | 7.67 Hz   |
| Characteristic outer ring frequency, BPF0     | 8.28 Hz   |
| Characteristic inner ring frequency, BPF1     | 10.72 Hz  |



| Abutment dimensions |           |
|---------------------|-----------|
| da min              | 8.1102 "  |
| da max              | 8.9370 "  |
| dc min              | 9.7244 "  |
| Da max              | 12.7559 " |
| ra max              | 0.1181 "  |

### Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$