

## PDF technical sheet N208



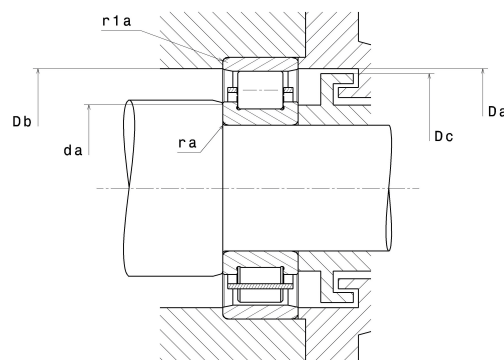
### Single row cylindrical roller bearings

Single row cylindrical roller bearing, floating, separable, pressed steel cage

| Product definition     |          |
|------------------------|----------|
| d                      | 1.5748 " |
| D                      | 3.1496 " |
| B                      | 0.7087 " |
| E                      | 2.7559 " |
| F                      | 1.9685 " |
| d1                     | 2.1339 " |
| rs min                 | 0.0433 " |
| r1s min                | 0.0433 " |
| Radial clearance class | CN       |
| Mass (without HJ ring) | 1.31 oz  |
| Brand                  | NTN      |



| Product performance                           |            |
|-----------------------------------------------|------------|
| Dynamic load, C                               | 43.50 kN   |
| Static load, C0                               | 43 kN      |
| Fatigue limit load, Cu                        | 5.20 kN    |
| Nlim (oil)                                    | 11,000 RPM |
| Nlim (grease)                                 | 9,400 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 | 5.83 Hz    |
| Characteristic outer ring frequency, BPF0     | 5.42 Hz    |
| Characteristic inner ring frequency, BPF1     | 7.58 Hz    |



| Abutment dimensions |          |
|---------------------|----------|
| da min              | 1.8307 " |
| Da max              | 2.8937 " |
| Db min              | 2.7953 " |
| Dc max              | 2.6772 " |
| ra max              | 0.0394 " |
| r1a max             | 0.0394 " |

### Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$