

## PDF technical sheet N318



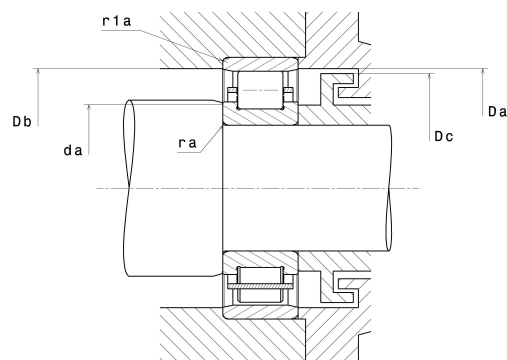
### Single row cylindrical roller bearings

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

| Product definition     |          |
|------------------------|----------|
| d                      | 3.5433 " |
| D                      | 7.4803 " |
| B                      | 1.6929 " |
| E                      | 6.4961 " |
| F                      | 4.5276 " |
| d1                     | 4.9213 " |
| rs min                 | 0.1181 " |
| r1s min                | 0.1181 " |
| Radial clearance class | CN       |
| Mass (without HJ ring) | 19.12 oz |
| Brand                  | NTN      |



| Product performance             |           |
|---------------------------------|-----------|
| Dynamic load, C                 | 240 kN    |
| Static load, C0                 | 265 kN    |
| Fatigue limit load, Cu          | 29.20 kN  |
| Nlim (oil)                      | 4,300 RPM |
| Nlim (grease)                   | 3,700 RPM |
| Min operating temperature, Tmin | -40 °C    |
| Max operating temperature, Tmax | 248 °C    |



| Abutment dimensions |          |
|---------------------|----------|
| da min              | 4.0551 " |
| Da max              | 6.9685 " |
| Db min              | 6.6535 " |
| Dc max              | 6.4173 " |
| ra max              | 0.0984 " |
| r1a max             | 0.0984 " |

#### Calculation factors

Equivalent dynamic radial load

$$P = F_r$$

Equivalent static radial load

$$P_0 = F_r$$

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