

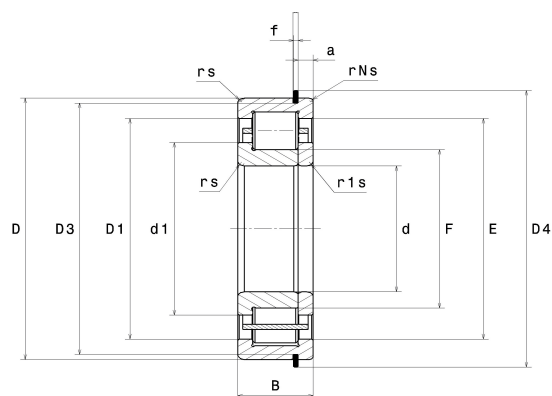
## PDF technical sheet NUP312NRC3



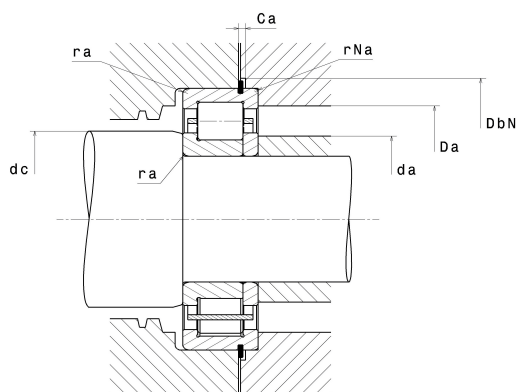
### Single row cylindrical roller bearings

Single row cylindrical roller bearing with snap ring, separable, locating, pressed steel cage

| Product definition     |          |
|------------------------|----------|
| d                      | 2.3622 " |
| D                      | 5.1181 " |
| B                      | 1.2205 " |
| E                      | 4.4488 " |
| F                      | 3.0315 " |
| d1                     | 3.3150 " |
| a min                  | 0.1520 " |
| a max                  | 0.1598 " |
| Ca min                 | 0.2630 " |
| Ca max                 | 0.2709 " |
| rNs min                | 0.0197 " |
| D3 max                 | 4.9299 " |
| b min                  | 0.1220 " |
| b max                  | 0.1339 " |
| r0 max                 | 0.0236 " |
| D4 max                 | 5.5000 " |
| f                      | 0.1110 " |
| Snap ring reference    | R130     |
| rs min                 | 0.0827 " |
| r1s min                | 0.0827 " |
| Radial clearance class | C3       |
| Mass (without HJ ring) | 6.76 oz  |
| Brand                  | NTN      |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 124 kN    |
| Static load, C0                               | 126 kN    |
| Fatigue limit load, Cu                        | 15.40 kN  |
| Nlim (oil)                                    | 6,500 RPM |
| Nlim (grease)                                 | 5,500 RPM |
| Min operating temperature, Tmin               | -40 °C    |
| Max operating temperature, Tmax               | 248 °C    |
| Characteristic cage frequency, FTF            | 0.41 Hz   |
| Characteristic rolling element frequency, BSF | 5.09 Hz   |
| Characteristic outer ring frequency, BPF0     | 4.86 Hz   |
| Characteristic inner ring frequency, BPF1     | 7.14 Hz   |



#### Abutment dimensions

|         |          |
|---------|----------|
| da min  | 2.7953 " |
| dc min  | 3.3858 " |
| Da max  | 4.6850 " |
| DbN min | 5.5709 " |
| ra max  | 0.0787 " |
| rNa max | 0.0197 " |

#### Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$