

## PDF technical sheet NU313EG15



### Single row cylindrical roller bearings

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

| Product definition     |          |
|------------------------|----------|
| d                      | 2.5591 " |
| D                      | 5.5118 " |
| B                      | 1.2992 " |
| E                      | 4.9016 " |
| F                      | 3.2480 " |
| D1                     | 4.6693 " |
| rs min                 | 0.0827 " |
| r1s min                | 0.0827 " |
| Radial clearance class | CN       |
| Mass (without HJ ring) | 8.04 oz  |
| Brand                  | SNR      |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 182 kN    |
| Static load, C0                               | 193 kN    |
| Fatigue limit load, Cu                        | 23.30 kN  |
| Nref                                          | 4,600 RPM |
| Nlim                                          | 6,000 RPM |
| Min operating temperature, Tmin               | -4 °C     |
| Max operating temperature, Tmax               | 248 °C    |
| Characteristic cage frequency, FTF            | 0.40 Hz   |
| Characteristic rolling element frequency, BSF | 4.73 Hz   |
| Characteristic outer ring frequency, BPF0     | 5.18 Hz   |
| Characteristic inner ring frequency, BPF1     | 7.82 Hz   |



| Abutment dimensions |          |
|---------------------|----------|
| da min              | 2.9921 " |
| da max              | 3.1890 " |
| Da max              | 5.0787 " |
| ra max              | 0.0787 " |
| r1a max             | 0.0787 " |

### Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$