

## PDF technical sheet NJ316EG15



### Single row cylindrical roller bearings

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

| Product definition     |          |
|------------------------|----------|
| d                      | 3.1496 " |
| D                      | 6.6929 " |
| B                      | 1.5354 " |
| E                      | 5.9449 " |
| F                      | 3.9764 " |
| d1                     | 4.3465 " |
| D1                     | 5.6654 " |
| rs min                 | 0.0827 " |
| r1s min                | 0.0827 " |
| Radial clearance class | CN       |
| Mass (without HJ ring) | 14.25 oz |
| Brand                  | SNR      |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 259 kN    |
| Static load, C0                               | 287 kN    |
| Fatigue limit load, Cu                        | 32.70 kN  |
| Nref                                          | 3,800 RPM |
| Nlim                                          | 4,900 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 | 4.84 Hz   |
| Characteristic outer ring frequency, BPF0     | 5.21 Hz   |
| Characteristic inner ring frequency, BPF1     | 7.79 Hz   |



| Abutment dimensions |          |
|---------------------|----------|
| da min              | 3.5827 " |
| da max              | 3.8976 " |
| db min              | 4.1339 " |
| dc min              | 4.4882 " |
| Da max              | 6.2598 " |
| ra max              | 0.0787 " |
| r1a max             | 0.0787 " |

### Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$