

## PDF technical sheet NU319EMJ30



### Single row cylindrical roller bearings

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

| Product definition     |          |
|------------------------|----------|
| d                      | 3.7402 " |
| D                      | 7.8740 " |
| B                      | 1.7717 " |
| E                      | 6.9882 " |
| F                      | 4.7835 " |
| D1                     | 6.6772 " |
| rs min                 | 0.1181 " |
| r1s min                | 0.1181 " |
| Radial clearance class | C3       |
| Mass (without HJ ring) | 25.40 oz |
| Brand                  | SNR      |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 338 kN    |
| Static load, C0                               | 392 kN    |
| Fatigue limit load, Cu                        | 42.40 kN  |
| Nref                                          | 3,300 RPM |
| Nlim                                          | 5,300 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 | 5.15 Hz   |
| Characteristic outer ring frequency, BPF0     | 5.69 Hz   |
| Characteristic inner ring frequency, BPFI     | 8.31 Hz   |



| Abutment dimensions |          |
|---------------------|----------|
| da min              | 4.2520 " |
| da max              | 4.6850 " |
| Da max              | 7.3622 " |
| ra max              | 0.0984 " |
| r1a max             | 0.0984 " |

### Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$