

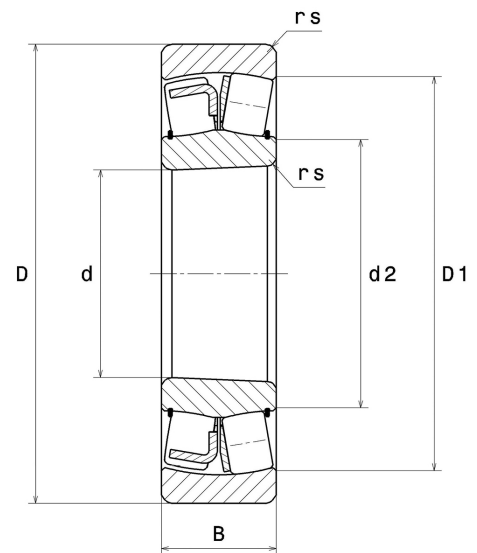
## PDF technical sheet 21315VKC3



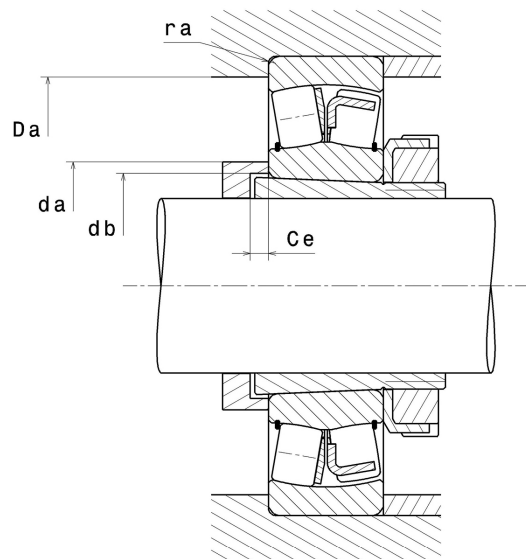
### Double row spherical roller bearings

Spherical roller bearing, pressed steel cage, tapered bore 1:12

| Product definition          |          |
|-----------------------------|----------|
| d                           | 2.9528 " |
| D                           | 6.2992 " |
| B                           | 1.4567 " |
| d2                          | 3.8465 " |
| D1                          | 5.3543 " |
| rs min                      | 0.0827 " |
| Number of lubrication holes |          |
| Associated sleeve reference | H315     |
| e                           | 0.23     |
| Y1                          | 2.93     |
| Y2                          | 4.37     |
| Y0                          | 2.87     |
| Radial clearance class      | C3       |
| Mass                        | 12.52 oz |
| Brand                       | SNR      |



| Product performance                           |           |
|---|-----------|
| Dynamic load, C                               | 295 kN    |
| Static load, C0                               | 274 kN    |
| Fatigue limit load, Cu                        | 35.20 kN  |
| Nref  | 4,000 RPM |
| Nlim  | 5,200 RPM |
| Min operating temperature, Tmin               | -40 °C    |
| Max operating temperature, Tmax               | 392 °C    |
| Characteristic cage frequency, FTF            | 0.42 Hz   |
| Characteristic rolling element frequency, BSF | 5.79 Hz   |
| Characteristic outer ring frequency, BPF0     | 6.26 Hz   |
| Characteristic inner ring frequency, BPF1     | 8.75 Hz   |



### Abutment dimensions

|        |          |
|--------|----------|
| da min | 3.4252 " |
| Da max | 5.8268 " |
| ra max | 0.0787 " |

### Calculation factors

#### Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

| Fa / Fr ≤ e |    | Fa / Fr > e |    |
|-------------|----|-------------|----|
| X           | Y  | X           | Y  |
| 1           | Y1 | 0.67        | Y2 |

#### Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

| X <sub>0</sub> | Y <sub>0</sub> |
|----------------|----------------|
| 1              | Y0             |

The values for e, Y1, Y2 and Y0 are shown in the above table .