

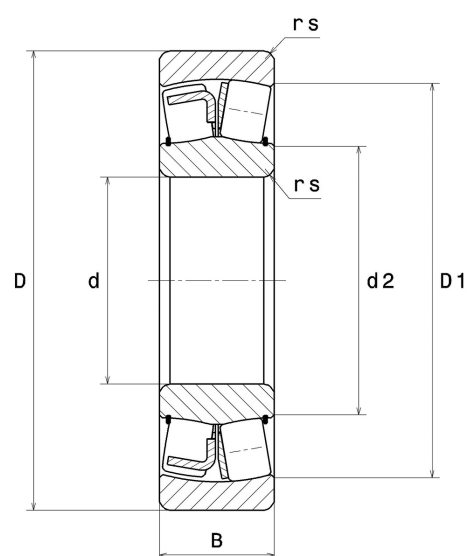
## PDF technical sheet 21306VC3



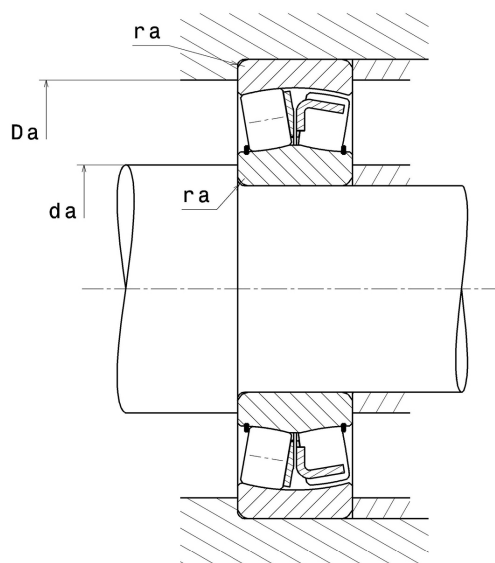
### Double row spherical roller bearings

Spherical roller bearing, pressed steel cage

| Product definition          |          |
|-----------------------------|----------|
| d                           | 1.1811 " |
| D                           | 2.8346 " |
| B                           | 0.7480 " |
| d2                          | 1.6063 " |
| D1                          | 2.3504 " |
| rs min                      | 0.0433 " |
| Number of lubrication holes |          |
| e                           | 0.28     |
| Y1                          | 2.45     |
| Y2                          | 3.64     |
| Y0                          | 2.39     |
| Radial clearance class      | C3       |
| Mass                        | 1.39 oz  |
| Brand                       | SNR      |



| Product performance                           |            |
|-----------------------------------------------|------------|
| Dynamic load, C                               | 66.20 kN   |
| Static load, C0                               | 50.40 kN   |
| Fatigue limit load, Cu                        | 6.60 kN    |
| Nref                                          | 7,800 RPM  |
| Nlim                                          | 12,000 RPM |
| Min operating temperature, Tmin               | -40 °C     |
| Max operating temperature, Tmax               | 392 °C     |
| Characteristic cage frequency, FTF            | 0.41 Hz    |
| Characteristic rolling element frequency, BSF | 4.97 Hz    |
| Characteristic outer ring frequency, BPF0     | 4.86 Hz    |
| Characteristic inner ring frequency, BPF1     | 7.14 Hz    |



### Abutment dimensions

|        |          |
|--------|----------|
| da min | 1.4567 " |
| Da max | 2.5591 " |
| ra max | 0.0394 " |

### Calculation factors

#### Equivalent dynamic radial load

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

| $F_a / F_r \leq e$ |    | $F_a / F_r > e$ |    |
|--------------------|----|-----------------|----|
| X                  | Y  | X               | Y  |
| 1                  | Y1 | 0.67            | Y2 |

#### Equivalent static radial load

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

| $X_0$ | $Y_0$ |
|-------|-------|
| 1     | Y0    |

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