

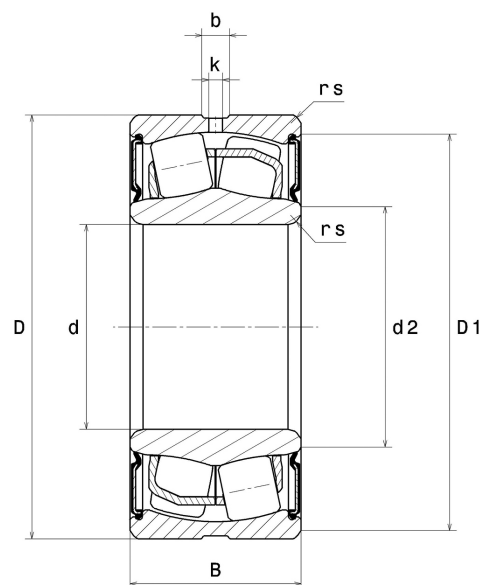
## PDF technical sheet 10X22217EAW33EE



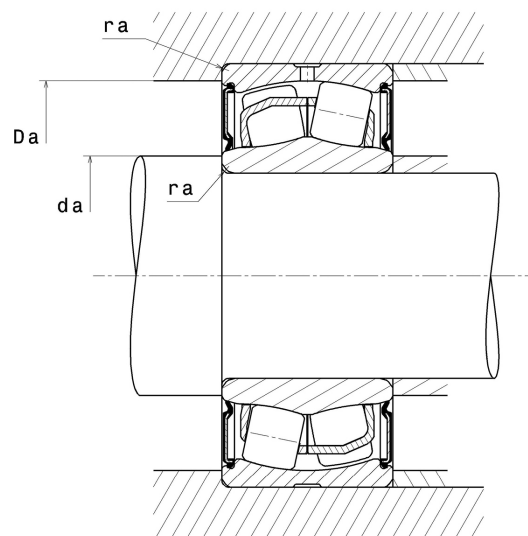
### Double row spherical roller bearings

Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring, non ISO width, contact seals on both sides

| Product definition          |          |
|-----------------------------|----------|
| d                           | 3.3465 " |
| D                           | 5.9055 " |
| B                           | 1.7323 " |
| d2                          | 3.8268 " |
| D1                          | 5.5433 " |
| rs min                      | 0.0787 " |
| Number of lubrication holes | 3        |
| b                           | 0.3110 " |
| k                           | 0.1378 " |
| e                           | 0.22     |
| Y1                          | 3.07     |
| Y2                          | 4.57     |
| Y0                          | 3        |
| Radial clearance class      | CN       |
| Mass                        | 10.55 oz |
| Brand                       | SNR      |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 324 kN    |
| Static load, C0                               | 330 kN    |
| Fatigue limit load, Cu                        | 46.20 kN  |
| Nlim                                          | 1,350 RPM |
| Min operating temperature, Tmin               | 14 °C     |
| Max operating temperature, Tmax               | 248 °C    |
| Characteristic cage frequency, FTF            | 0.42 Hz   |
| Characteristic rolling element frequency, BSF | 6.37 Hz   |
| Characteristic outer ring frequency, BPF0     | 7.63 Hz   |
| Characteristic inner ring frequency, BPF1     | 10.37 Hz  |



### Abutment dimensions

|        |          |
|--------|----------|
| da min | 3.7795 " |
| da max | 3.8268 " |
| Da max | 5.5433 " |
| ra max | 0.0787 " |

### 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 .