

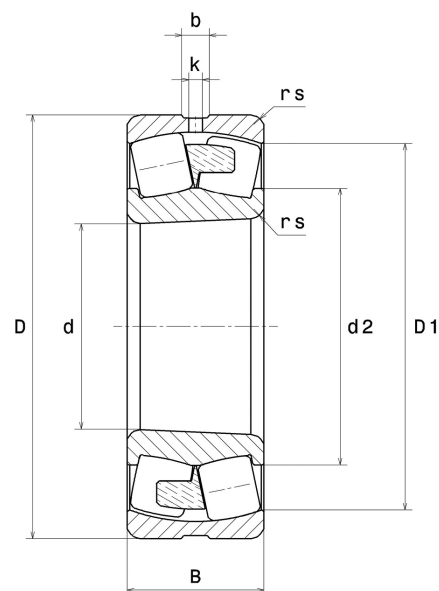
## PDF technical sheet 23060EMKW33



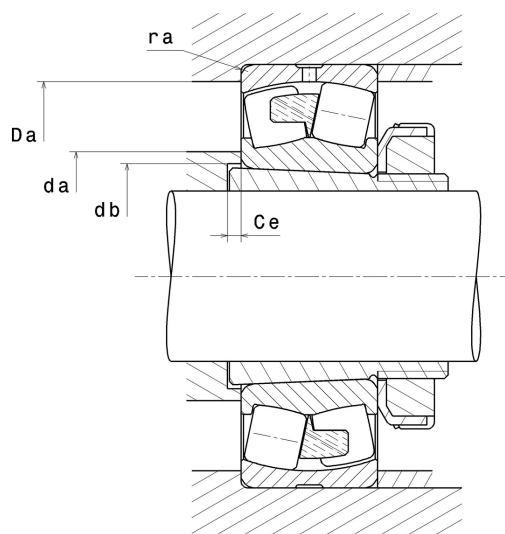
### Double row spherical roller bearings

Spherical roller bearing, one-piece machined cage centred on inner ring, groove and lubrication holes on outer ring, tapered bore 1:12

| Product definition          |           |
|-----------------------------|-----------|
| d                           | 11.8110 " |
| D                           | 18.1102 " |
| B                           | 4.6457 "  |
| d2                          | 14.5394 " |
| D1                          | 16.5394 " |
| rs min                      | 0.1575 "  |
| Number of lubrication holes | 8         |
| b                           | 0.6299 "  |
| k                           | 0.3937 "  |
| Associated sleeve reference | H3060H    |
| e                           | 0.22      |
| Y1                          | 3.07      |
| Y2                          | 4.57      |
| Y0                          | 3         |
| Radial clearance class      | CN        |
| Mass                        | 256.09 oz |
| Brand                       | SNR       |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 2,420 kN  |
| Static load, C0                               | 4,230 kN  |
| Fatigue limit load, Cu                        | 251 kN    |
| Nref                                          | 1,000 RPM |
| Nlim                                          | 1,500 RPM |
| Min operating temperature, Tmin               | -40 °C    |
| Max operating temperature, Tmax               | 392 °C    |
| Characteristic cage frequency, FTF            | 0.46 Hz   |
| Characteristic rolling element frequency, BSF | 11.72 Hz  |
| Characteristic outer ring frequency, BPF0     | 15.12 Hz  |
| Characteristic inner ring frequency, BPF1     | 17.88 Hz  |



### Abutment dimensions

|        |           |
|--------|-----------|
| da min | 12.3858 " |
| db min | 12.3228 " |
| Ce min | 0.4724 "  |
| Da max | 17.5354 " |
| ra max | 0.1181 "  |

### 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 .