

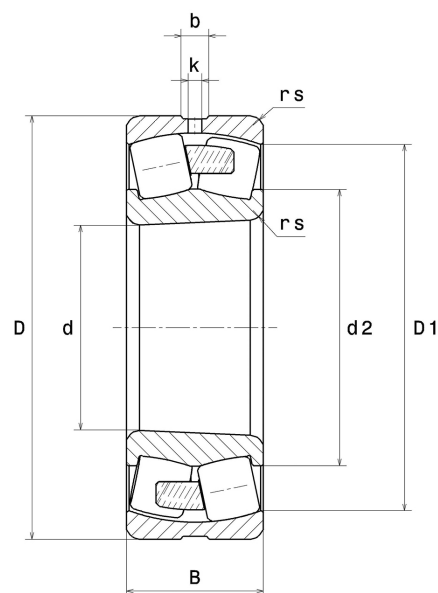
## PDF technical sheet 22324EMKW33



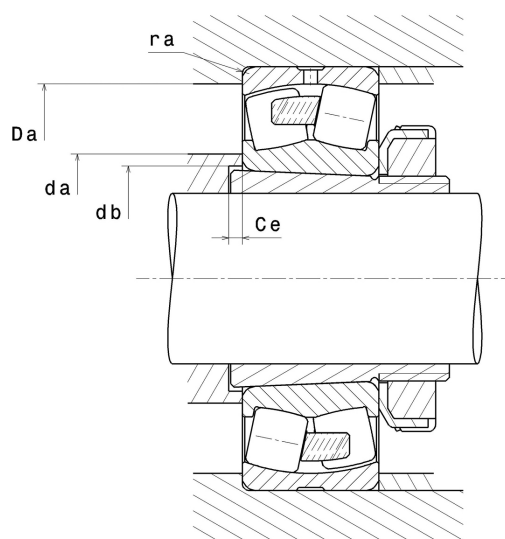
### Double row spherical roller bearings

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

| Product definition          |           |
|-----------------------------|-----------|
| d                           | 4.7244 "  |
| D                           | 10.2362 " |
| B                           | 3.3858 "  |
| d2                          | 6.1772 "  |
| D1                          | 8.8189 "  |
| rs min                      | 0.1181 "  |
| Number of lubrication holes | 3         |
| b                           | 0.7087 "  |
| k                           | 0.3150 "  |
| Associated sleeve reference | H2324     |
| e                           | 0.32      |
| Y1                          | 2.09      |
| Y2                          | 3.11      |
| Y0                          | 2.04      |
| Radial clearance class      | CN        |
| Mass                        | 78.13 oz  |
| Brand                       | SNR       |



| Product performance                           |           |
|---|-----------|
| Dynamic load, C                               | 1,170 kN  |
| Static load, C0                               | 1,280 kN  |
| Fatigue limit load, Cu                        | 96.20 kN  |
| Nref  | 2,000 RPM |
| Nlim  | 2,500 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 | 5.33 Hz   |
| Characteristic outer ring frequency, BPF0     | 6.58 Hz   |
| Characteristic inner ring frequency, BPF1     | 9.42 Hz   |



### Abutment dimensions

|        |          |
|--------|----------|
| da min | 5.2756 " |
| db min | 5.1575 " |
| Ce min | 0.2756 " |
| Da max | 9.6850 " |
| ra max | 0.0984 " |

### Calculation factors

#### Equivalent dynamic radial load

$$P = X.Fr + Y.Fa$$

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

#### Equivalent static radial load

$$Po = Xo.Fr + Yo.Fa$$

| Xo | Yo |
|----|----|
| 1  | Y0 |

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