

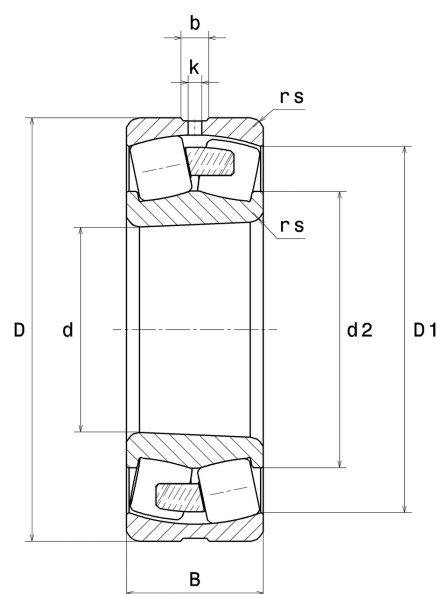
## PDF technical sheet 23144EMKW33C4



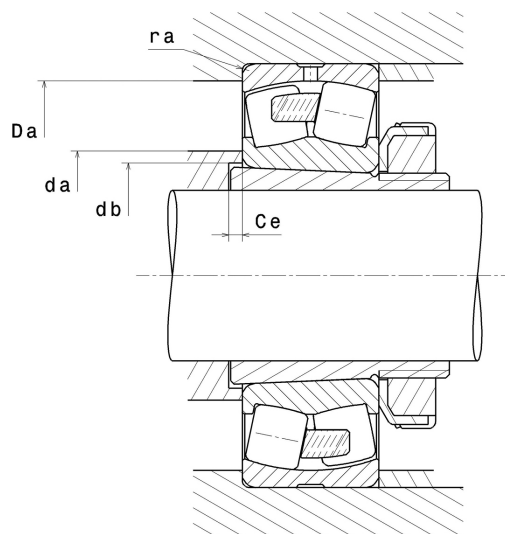
### Double row spherical roller bearings

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

| Product definition          |           |
|-----------------------------|-----------|
| d                           | 8.6614 "  |
| D                           | 14.5669 " |
| B                           | 4.7244 "  |
| D1                          | 12.9094 " |
| rs min                      | 0.1575 "  |
| Number of lubrication holes | 3         |
| b                           | 0.7520 "  |
| k                           | 0.3543 "  |
| Associated sleeve reference | H3144     |
| e                           | 0.3       |
| Y1                          | 2.28      |
| Y2                          | 3.39      |
| Y0                          | 2.23      |
| Radial clearance class      | C4        |
| Mass                        | 184.17 oz |
| Brand                       | SNR       |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 2,190 kN  |
| Static load, C0                               | 2,940 kN  |
| Fatigue limit load, Cu                        | 185 kN    |
| Nref                                          | 1,200 RPM |
| Nlim                                          | 1,700 RPM |
| Min operating temperature, Tmin               | -40 °C    |
| Max operating temperature, Tmax               | 392 °C    |
| Characteristic cage frequency, FTF            | 0.43 Hz   |
| Characteristic rolling element frequency, BSF | 7.16 Hz   |
| Characteristic outer ring frequency, BPF0     | 9.09 Hz   |
| Characteristic inner ring frequency, BPF1     | 11.91 Hz  |



### Abutment dimensions

|        |           |
|--------|-----------|
| da min | 9.3307 "  |
| Da max | 13.8976 " |
| ra max | 0.1181 "  |

### 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 .