

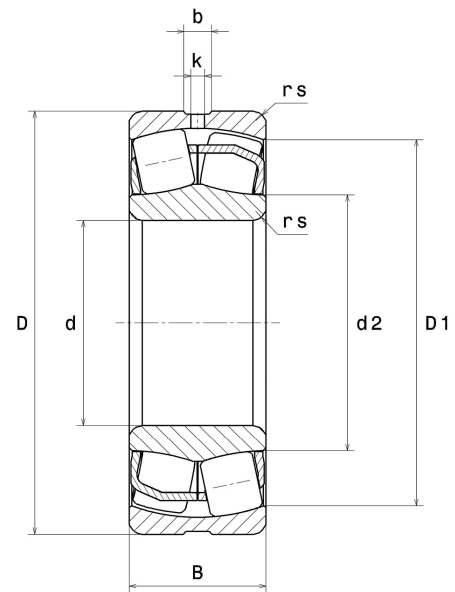
PDF technical sheet 22216EAW33C4



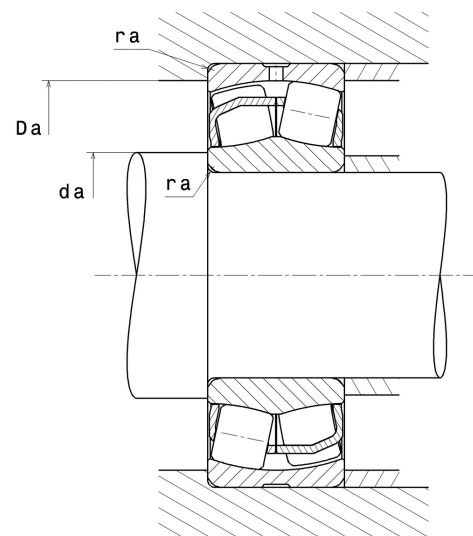
Double row spherical roller bearings

Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring

| Product definition | |
|-----------------------------|----------|
| d | 3.1496 " |
| D | 5.5118 " |
| B | 1.2992 " |
| d2 | 3.7362 " |
| D1 | 4.9882 " |
| rs min | 0.0787 " |
| Number of lubrication holes | 3 |
| b | 0.3098 " |
| k | 0.1378 " |
| e | 0.22 |
| Y1 | 3.14 |
| Y2 | 4.67 |
| Y0 | 3.07 |
| Radial clearance class | C4 |
| Mass | 7.31 oz |
| Brand | SNR |



| Product performance | |
|---|-----------|
| Dynamic load, C | 278 kN |
| Static load, C0 | 287 kN |
| Fatigue limit load, Cu | 33.40 kN |
| Nref | 4,300 RPM |
| Nlim | 5,800 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 | 6.68 Hz |
| Characteristic outer ring frequency, BPF0 | 8.12 Hz |
| Characteristic inner ring frequency, BPF1 | 10.88 Hz |



Abutment dimensions

| | |
|--------|----------|
| da min | 3.5827 " |
| Da max | 5.0787 " |
| ra max | 0.0787 " |

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 ₀ | Y ₀ |
|----------------|----------------|
| 1 | Y0 |

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