# Technical data

## 22330.E.F802

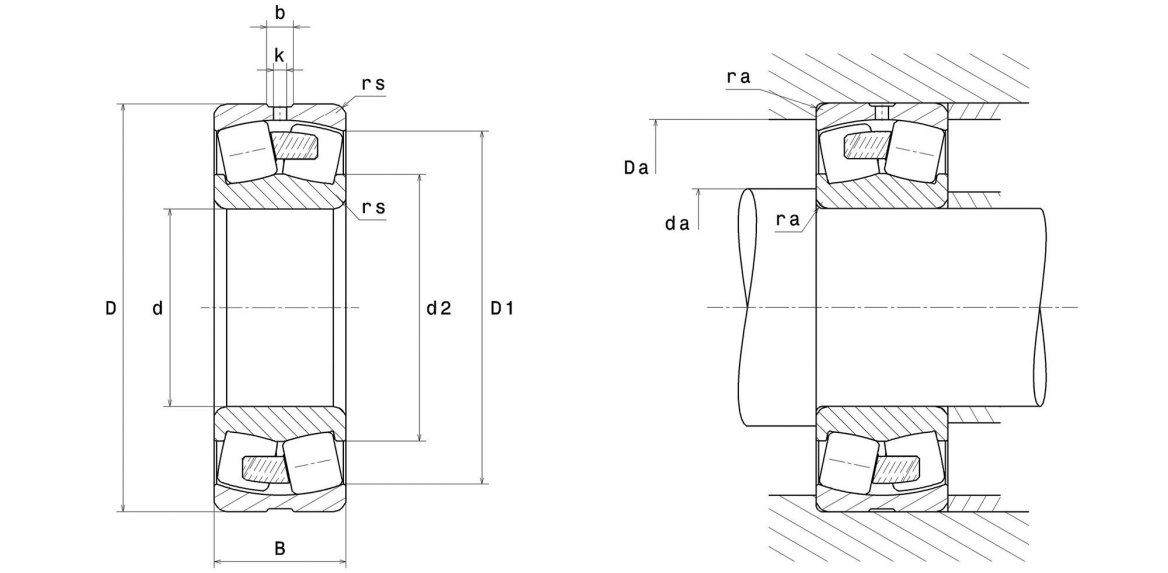
Double row spherical roller bearings



Spherical roller bearing for vibratory applications, one-piece machined cage, groove and lubrication holes on outer ring, special CN class clearance

ULTAGE

## Visual(s)




## Product definition

| | |
|---|---|
| **d** | 150 mm |
| **D** | 320 mm |
| **B** | 108 mm |
| **d2** | 201 mm |
| **D1** | 278.3 mm |
| **rs min** | 4 mm |
| **Number of lubrication holes** | 3 |
| **b** | 19.9 mm |
| **k** | 9 mm |
| **Associated sleeve reference** | P0spé |
| **e** | 0.34 |
| **Y1** | 2 |
| **Y2** | 2.98 |
| **Y0** | 1.96 |
| **Radial clearance class** | CN Special |
| **Mass** | 42.3 kg |
| **Brand** | SNR |

## Product performance

| | |
|---|---|
| **Dynamic load, C** | 1,740 kN |
| **Static load, C0** | 1,890 kN |
| **Fatigue limit load, Cu** | 143 kN |
| **Nref** | 1,500 Tr/min |
| **Nlim** | 2,100 Tr/min |
| **Min operating temperature, Tmin** | -40 °C |
| **Max operating temperature, Tmax** | 200 °C |
| **Characteristic cage frequency, FTF** | 0.4 Hz |
| **Characteristic rolling element frequency, BSF** | 4.96 Hz |
| **Characteristic outer ring frequency, BPF0** | 6.08 Hz |
| **Characteristic inner ring frequency, BPFI** | 8.92 Hz |

## Abutment dimensions

| | |
|---|---|
| **da min** | 167 mm |
| **da max** | 3 mm |
| **Da max** | 303 mm |
| **ra max** | 3 mm |

## Calculation factors

### Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

| $Fa / Fr \leq e$ | | $Fa / Fr > e$ | |
|---|---|---|---|
| X | Y | X | Y |
| 1 | Y1 | 0.67 | Y2 |

### Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

| $X_0$ | $Y_0$ |
|---|---|
| 1 | Y0 |

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