# Technical data

## 24136.EAW33C3

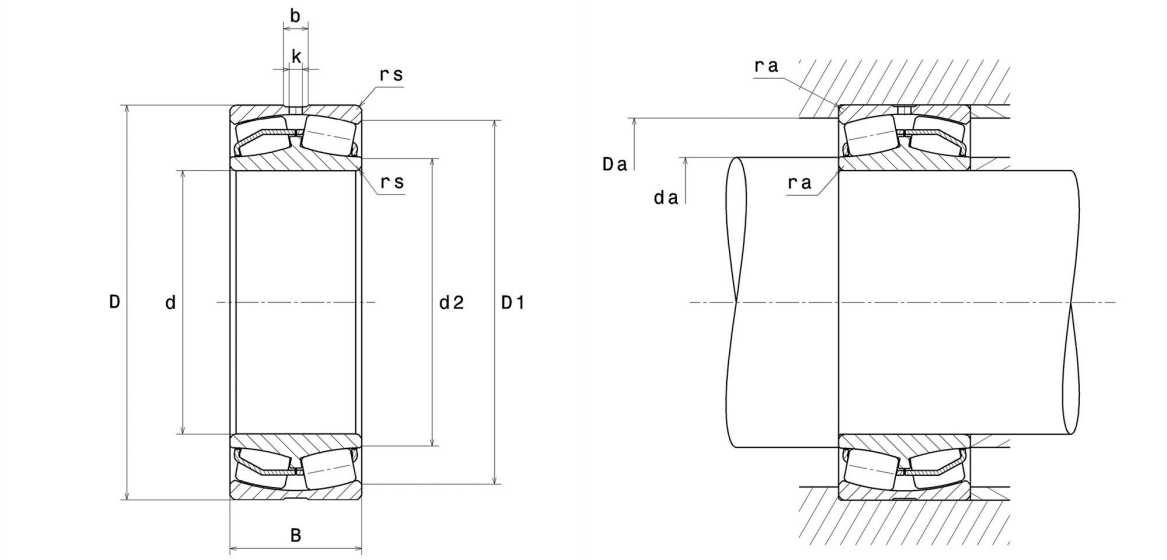
Double row spherical roller bearings



Spherical roller bearing, with central rib on inner ring, pressed steel cage, groove and lubrication holes on outer ring

ULTAGE

## Visual(s)




## Product definition

| | |
|---|---|
| **d** | 180 mm |
| **D** | 300 mm |
| **B** | 118 mm |
| **d2** | 200.8 mm |
| **D1** | 260.4 mm |
| **rs min** | 3 mm |
| **Number of lubrication holes** | 3 |
| **b** | 14.1 mm |
| **k** | 6 mm |
| **Associated sleeve reference** | P0 |
| **e** | 0.38 |
| **Y1** | 1.78 |
| **Y2** | 2.66 |
| **Y0** | 1.74 |
| **Radial clearance class** | C3 |
| **Mass** | 33.9 kg |
| **Brand** | SNR |

## Product performance

| | |
|---|---|
| **Dynamic load, C** | 1,550 kN |
| **Static load, C0** | 2,050 kN |
| **Fatigue limit load, Cu** | 123 kN |
| **Nref** | 1,200 Tr/min |
| **Nlim** | 1,700 Tr/min |
| **Min operating temperature, Tmin** | -40 °C |
| **Max operating temperature, Tmax** | 200 °C |
| **Characteristic cage frequency, FTF** | 0.43 Hz |
| **Characteristic rolling element frequency, BSF** | 7.14 Hz |
| **Characteristic outer ring frequency, BPF0** | 8.67 Hz |
| **Characteristic inner ring frequency, BPFI** | 11.33 Hz |

## Abutment dimensions

| | |
|---|---|
| **da min** | 194 mm |
| **da max** | 2.5 mm |
| **Da max** | 286 mm |
| **ra max** | 2.5 mm |

## 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

$P_0 = X_0.Fr + Y_0.Fa$

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

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