



## Technical data

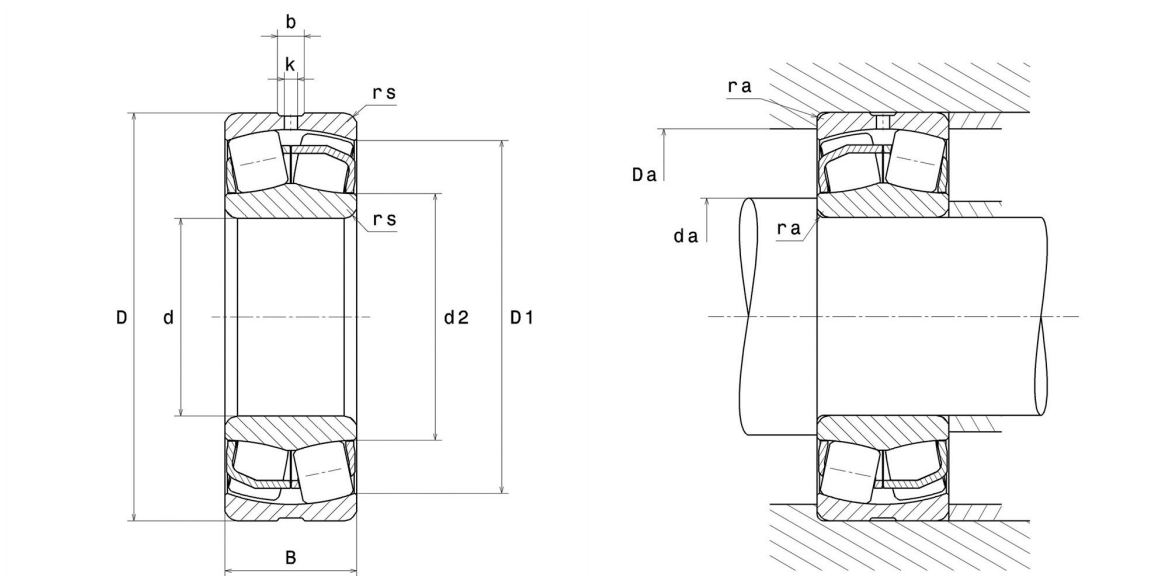
### 21307EAW33

Double row spherical roller bearings

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

# ULTAGE

## Visual(s)



## Product definition

<b>d</b>	35 mm
<b>D</b>	80 mm
<b>B</b>	21 mm
<b>d2</b>	50.6 mm
<b>D1</b>	69 mm
<b>rs min</b>	1.5 mm
<b>Number of lubrication holes</b>	3
<b>b</b>	6.2 mm
<b>k</b>	2.5 mm
<b>Associated sleeve reference</b>	P0
<b>e</b>	0.24
<b>Y1</b>	2.79
<b>Y2</b>	4.15
<b>Y0</b>	2.73
<b>Radial clearance class</b>	CN
<b>Mass</b>	0.53 kg
<b>Brand</b>	SNR

## Product performance

<b>Dynamic load, C</b>	88.5 kN
<b>Static load, C0</b>	78.5 kN
<b>Fatigue limit load, Cu</b>	9.6 kN
<b>Nref</b>	6,900 Tr/min
<b>Nlim</b>	10,000 Tr/min
<b>Min operating temperature, Tmin</b>	-40 °C
<b>Max operating temperature, Tmax</b>	200 °C
<b>Characteristic cage frequency, FTF</b>	0.42 Hz
<b>Characteristic rolling element frequency, BSF</b>	6.14 Hz
<b>Characteristic outer ring frequency, BPF0</b>	6.75 Hz
<b>Characteristic inner ring frequency, BPF1</b>	9.25 Hz

## Abutment dimensions

<b>da min</b>	44 mm
<b>da max</b>	1.5 mm
<b>Da max</b>	71 mm
<b>ra max</b>	1.5 mm

## 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 .