



## Technical data

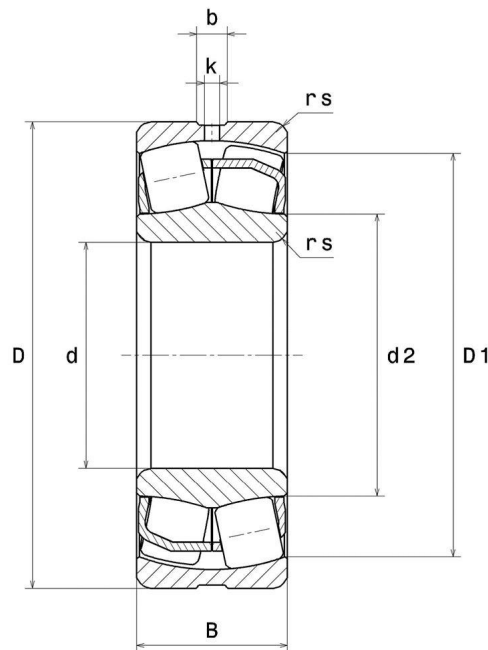
22312EAW33C3

Spherical roller bearings

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

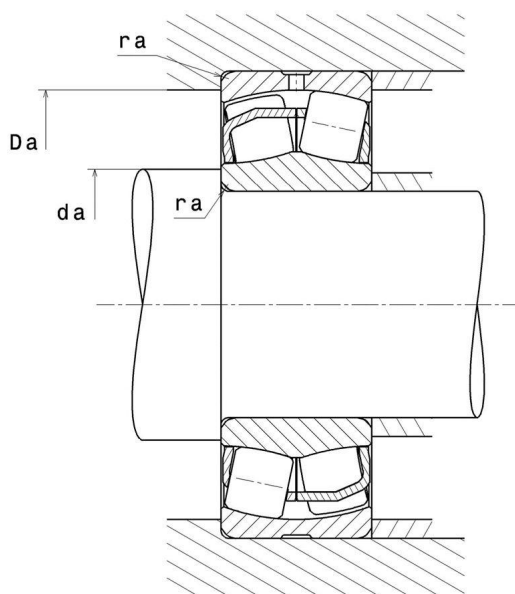
**ULTAGE**

### VISUAL (S)



# 22312EAW33C3

Spherical roller bearings



## PRODUCT DIMENSIONS

<b>Internal diameter d</b>	60 mm
<b>External diameter D</b>	130 mm
<b>Bearing/Inner ring width(B)</b>	46 mm
<b>External diameter inner ring d2</b>	75,3 mm
<b>Inner diameter outer ring D1</b>	111,9 mm
<b>Min fillet radius rs</b>	2,1 mm
<b>Number of lubrication holes</b>	3 or 4
<b>Groove width (b)</b>	9 mm
<b>Hole diameter (k)</b>	4 mm
<b>Coef e</b>	0.35
<b>Lower axial load coef (Y1)</b>	1.95
<b>Upper axial load coef (Y2)</b>	2.9
<b>Static axial load coef (Y0)</b>	1.91
<b>Radial clearance class</b>	C3
<b>Mass</b>	2,804 kg
<b>Brand</b>	SNR

## PRODUCT PERFORMANCE

<b>Dynamic load, C</b>	340 kN
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### PRODUCT PERFORMANCE

Static load, C0	319 kN
Fatigue limit load, Cu	38,9 kN
Reference thermal speed (Nref)	4300 tr/min
Mechanical Limit Speed Nlim	5100 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.402 Hz
Characteristic rolling element frequency, BSF	4.768 Hz
Characteristic outer ring frequency, BPF0	5.625 Hz
Characteristic inner ring frequency, BPFI	8.375 Hz

### ABUTMENT

Max shoulder diameter IR da max	0 mm
Min shoulder diameter IR da min	72 mm
Max shoulder diameter OR Da max	118 mm
Max shaft & housing fillet radius ra max	2 mm

**INDUSTRY CALCUL 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 .