

# 2312 KM

## Self-aligning ball bearings

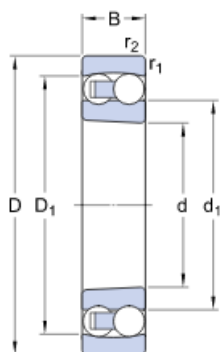
### Bearing data

[Tolerances](#),  
Normal, JS7,  
[Radial internal clearance](#),  
table

### Bearing interfaceS

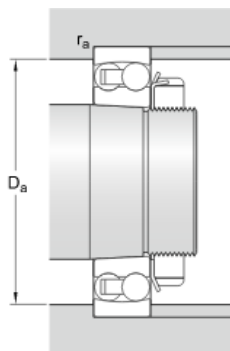
[Seat tolerances for standard conditions](#),  
[Tolerances and resultant fits](#)

## Technical specification



### DIMENSIONS

d	60 mm
D	130 mm
B	46 mm
d <sub>1</sub>	≈ 77.1 mm
D <sub>1</sub>	≈ 109.2 mm
r <sub>1,2</sub>	min. 2.1 mm
Tapered bore, taper 1:12	



### ABUTMENT DIMENSIONS

D <sub>a</sub>	max. 118 mm
r <sub>a</sub>	max. 2 mm

## CALCULATION DATA

Basic dynamic load rating	C	87.1 kN
Basic static load rating	C <sub>0</sub>	28.5 kN
Fatigue load limit	P <sub>u</sub>	1.46 kN
Reference speed		9500 r/min
Limiting speed		7000 r/min
Permissible angular misalignment	$\alpha$	3 °
Calculation factor	k <sub>r</sub>	0.05
Calculation factor	e	0.33
Calculation factor	Y <sub>0</sub>	1.6
Calculation factor	Y <sub>1</sub>	1.6
Calculation factor	Y <sub>2</sub>	2.4

## MASS

Mass bearing	2.9 kg
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## More information

Product details	Engineering information	Tools
<a href="#">Designs and variants</a>	<a href="#">Principles of rolling bearing selection</a>	<a href="#">Bearing Select</a>
<a href="#">Bearing data</a>	<a href="#">General bearing knowledge</a>	<a href="#">SimPro Quick</a>
<a href="#">Loads</a>	<a href="#">Bearing selection process</a>	<a href="#">Engineering Calculator</a>
<a href="#">Temperature limits</a>	<a href="#">Bearing interfaces</a>	<a href="#">LubeSelect for SKF greases</a>
<a href="#">Permissible speed</a>	<a href="#">Seat tolerances for standard conditions</a>	<a href="#">Heater selection tool</a>
<a href="#">Design considerations</a>	<a href="#">Selecting internal clearance</a>	<a href="#">Drive-up Method Program</a>
<a href="#">Mounting</a>	<a href="#">Lubrication</a>	<a href="#">Oil Injection Method Program</a>
<a href="#">Designation system</a>	<a href="#">Sealing, mounting and dismounting</a>	<a href="#">Tool and Accessory Selector for sleeves and shafts</a>
	<a href="#">Bearing failure and how to prevent it</a>	<a href="#">Housing Select</a>
		<a href="#">Rolling bearings mounting and dismounting instructions</a>

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