



## SKF 1312 ETN9

### Self-aligning ball bearing

Self-aligning ball bearings have two rows of balls, a common sphered raceway in the outer ring and two deep uninterrupted raceway grooves in the inner ring. They are insensitive to angular misalignment of the shaft relative to the housing, which can be caused, for example, by shaft deflection.

## Technical specifications

Bore type	Cylindrical
<b>Dimensions</b>	
Bore diameter	60 mm
Outside diameter	130 mm
Width	31 mm
Shoulder diameter inner ring	91.61 mm
Shoulder diameter outer ring	116.7 mm
Chamfer dimension	2.1 mm
<b>Abutment dimensions</b>	
Abutment diameter shaft	72 mm
Abutment diameter housing	118 mm
Fillet radius	2 mm
<b>Calculation data</b>	
Basic dynamic load rating	58.5 kN
Basic static load rating	22 kN
Fatigue load limit	1.12 kN
Reference speed	9000 r/min
Limiting speed	6300 r/min
Permissible angular misalignment	3 °
Calculation factor	0.04
Limiting value	0.22
Calculation factor	2.8
Calculation factor	2.9
Calculation factor	4.5
<b>Performance</b>	
Basic dynamic load rating	58.5 kN
Basic static load rating	22 kN
Reference speed	9000 r/min
Limiting speed	6300 r/min
<b>Properties</b>	
Retaining feature, inner ring	None
Locating feature, bearing outer ring	Without
Number of rows	2
Bore type	Cylindrical
Cage	Non-metallic
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Indicative carbon footprint for new product

7 kg CO<sub>2</sub>e

<b>Logistics</b>	
Product net weight	1.93 kg
eClass code	23-05-08-06
UNSPSC code	31171532

**SKF drawings**

