



## SKF 2309 EM

### 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	45 mm
Outside diameter	100 mm
Width	36 mm
Shoulder diameter inner ring	60.16 mm
Shoulder diameter outer ring	86 mm
Chamfer dimension	1.5 mm
<b>Abutment dimensions</b>	
Abutment diameter shaft	54 mm
Abutment diameter housing	91 mm
Fillet radius	1.5 mm
<b>Calculation data</b>	
Basic dynamic load rating	63.7 kN
Basic static load rating	19.3 kN
Fatigue load limit	1 kN
Reference speed	13000 r/min
Limiting speed	9000 r/min
Permissible angular misalignment	3 °
Calculation factor	0.05
Limiting value	0.33
Calculation factor	2
Calculation factor	1.9
Calculation factor	3
<b>Performance</b>	
Basic dynamic load rating	63.7 kN
Basic static load rating	19.3 kN
Reference speed	13000 r/min
Limiting speed	9000 r/min
<b>Properties</b>	
Retaining feature, inner ring	None
Locating feature, bearing outer ring	Without
Number of rows	2
Bore type	Cylindrical
Cage	Machined brass
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

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

<b>Logistics</b>	
Product net weight	1.31 kg
eClass code	23-05-08-06
UNSPSC code	31171532

**SKF drawings**

