



## SKF 2317 KM

### Self-aligning ball bearing with tapered bore

Self-aligning ball bearings, with a tapered bore, 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. The tapered bore facilitates ease of mounting via adapter sleeves or withdrawal sleeves.

## Technical specifications

Bore type	Tapered 1:12
<b>Dimensions</b>	
Bore diameter	85 mm
Outside diameter	180 mm
Width	60 mm
Shoulder diameter inner ring	115 mm
Shoulder diameter outer ring	153.5 mm
Chamfer dimension	3 mm
<b>Abutment dimensions</b>	
Abutment diameter housing	166 mm
Fillet radius	3 mm
<b>Calculation data</b>	
Basic dynamic load rating	140 kN
Basic static load rating	51 kN
Fatigue load limit	2.28 kN
Reference speed	6700 r/min
Limiting speed	4800 r/min
Permissible angular misalignment	3 °
Calculation factor	0.05
Limiting value	0.37
Calculation factor	1.8
Calculation factor	1.7
Calculation factor	2.6
<b>Performance</b>	
Basic dynamic load rating	140 kN
Basic static load rating	51 kN
Reference speed	6700 r/min
Limiting speed	4800 r/min
<b>Properties</b>	
Retaining feature, inner ring	None
Locating feature, bearing outer ring	Without
Number of rows	2
Bore type	Tapered 1:12
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	25.8 kg CO <sub>2</sub> e

<b>Logistics</b>	
Product net weight	7.16 kg
eClass code	23-05-08-06
UNSPSC code	31171532

SKF drawings

