



## SKF 1203 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	17 mm
Outside diameter	40 mm
Width	12 mm
Shoulder diameter inner ring	24 mm
Shoulder diameter outer ring	32.9 mm
Chamfer dimension	0.6 mm
<b>Abutment dimensions</b>	
Abutment diameter shaft	21.2 mm
Abutment diameter housing	35.8 mm
Fillet radius	0.6 mm
<b>Calculation data</b>	
Basic dynamic load rating	8.84 kN
Basic static load rating	2.2 kN
Fatigue load limit	0.114 kN
Reference speed	38000 r/min
Limiting speed	24000 r/min
Permissible angular misalignment	2.5 °
Calculation factor	0.04
Limiting value	0.31
Calculation factor	2.2
Calculation factor	2
Calculation factor	3.1
<b>Performance</b>	
Basic dynamic load rating	8.84 kN
Basic static load rating	2.2 kN
Reference speed	38000 r/min
Limiting speed	24000 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

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

<b>Logistics</b>	
Product net weight	0.067 kg
eClass code	23-05-08-06
UNSPSC code	31171532

**SKF drawings**