



## SKF 1209 EKTN9

### 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	45 mm
Outside diameter	85 mm
Width	19 mm
Shoulder diameter inner ring	57.51 mm
Shoulder diameter outer ring	72.5 mm
Chamfer dimension	1.1 mm
<b>Abutment dimensions</b>	
Abutment diameter housing	78 mm
Fillet radius	1.1 mm
<b>Calculation data</b>	
Basic dynamic load rating	22.9 kN
Basic static load rating	7.8 kN
Fatigue load limit	0.4 kN
Reference speed	17000 r/min
Limiting speed	11000 r/min
Permissible angular misalignment	2.5 °
Calculation factor	0.04
Limiting value	0.21
Calculation factor	3.2
Calculation factor	3
Calculation factor	4.6
<b>Performance</b>	
Basic dynamic load rating	22.9 kN
Basic static load rating	7.8 kN
Reference speed	17000 r/min
Limiting speed	11000 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	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	1.6 kg CO <sub>2</sub>

<b>Logistics</b>	
Product net weight	0.451 kg
eClass code	23-05-08-06
UNSPSC code	31171532

**SKF drawings**