



SKF 1309 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
Dimensions	
Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm
Shoulder diameter inner ring	67.71 mm
Shoulder diameter outer ring	87.8 mm
Chamfer dimension	1.5 mm
Abutment dimensions	
Abutment diameter shaft	54 mm
Abutment diameter housing	91 mm
Fillet radius	1.5 mm
Calculation data	
Basic dynamic load rating	39 kN
Basic static load rating	13.4 kN
Fatigue load limit	0.695 kN
Reference speed	12000 r/min
Limiting speed	8500 r/min
Permissible angular misalignment	3 °
Calculation factor	0.04
Limiting value	0.23
Calculation factor	2.8
Calculation factor	2.7
Calculation factor	4.2
Performance	
Basic dynamic load rating	39 kN
Basic static load rating	13.4 kN
Reference speed	12000 r/min
Limiting speed	8500 r/min
Properties	
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

3.3 kg CO₂e

Logistics	
Product net weight	0.925 kg
eClass code	23-05-08-06
UNSPSC code	31171532

SKF drawings