



SKF 1311 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	55 mm
Outside diameter	120 mm
Width	29 mm
Shoulder diameter inner ring	77.9 mm
Shoulder diameter outer ring	101.4 mm
Chamfer dimension	2 mm
Abutment dimensions	
Abutment diameter shaft	66 mm
Abutment diameter housing	109 mm
Fillet radius	2 mm
Calculation data	
Basic dynamic load rating	50.7 kN
Basic static load rating	18 kN
Fatigue load limit	0.915 kN
Reference speed	11000 r/min
Limiting speed	7500 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	50.7 kN
Basic static load rating	18 kN
Reference speed	11000 r/min
Limiting speed	7500 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

5.5 kg CO₂e

Logistics

Product net weight

1.53 kg

eClass code

23-05-08-06

UNSPSC code

31171532

SKF drawings