



SKF 1304 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	20 mm
Outside diameter	52 mm
Width	15 mm
Shoulder diameter inner ring	33.3 mm
Shoulder diameter outer ring	44.637 mm
Chamfer dimension	1 mm
Abutment dimensions	
Abutment diameter shaft	27 mm
Abutment diameter housing	45 mm
Fillet radius	1 mm
Calculation data	
Basic dynamic load rating	14.3 kN
Basic static load rating	4 kN
Fatigue load limit	0.204 kN
Reference speed	26000 r/min
Limiting speed	18000 r/min
Permissible angular misalignment	3 °
Calculation factor	0.04
Limiting value	0.28
Calculation factor	2.5
Calculation factor	2.2
Calculation factor	3.5
Performance	
Basic dynamic load rating	14.3 kN
Basic static load rating	4 kN
Reference speed	26000 r/min
Limiting speed	18000 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

0.58 kg CO₂e**Logistics**

Product net weight	0.16 kg
eClass code	23-05-08-06
UNSPSC code	31171532

SKF drawings