



SKF 2222

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	110 mm
Outside diameter	200 mm
Width	53 mm
Shoulder diameter inner ring	138.5 mm
Shoulder diameter outer ring	174.3 mm
Chamfer dimension	2.1 mm
Abutment dimensions	
Abutment diameter shaft	122 mm
Abutment diameter housing	188 mm
Fillet radius	2 mm
Calculation data	
Basic dynamic load rating	124 kN
Basic static load rating	52 kN
Fatigue load limit	2.12 kN
Reference speed	6000 r/min
Limiting speed	4300 r/min
Permissible angular misalignment	2.5 °
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	124 kN
Basic static load rating	52 kN
Reference speed	6000 r/min
Limiting speed	4300 r/min
Properties	
Retaining feature, inner ring	None
Locating feature, bearing outer ring	Without
Number of rows	2
Bore type	Cylindrical
Cage	Sheet metal
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

25 kg CO₂e

Logistics

Product net weight

6.94 kg

eClass code

23-05-08-06

UNSPSC code

31171532

SKF drawings