



SKF 1216

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	80 mm
Outside diameter	140 mm
Width	26 mm
Shoulder diameter inner ring	102 mm
Shoulder diameter outer ring	122.6 mm
Chamfer dimension	2 mm
Abutment dimensions	
Abutment diameter shaft	91 mm
Abutment diameter housing	129 mm
Fillet radius	2 mm
Calculation data	
Basic dynamic load rating	39.7 kN
Basic static load rating	17 kN
Fatigue load limit	0.83 kN
Reference speed	9500 r/min
Limiting speed	6000 r/min
Permissible angular misalignment	2.5 °
Calculation factor	0.04
Limiting value	0.16
Calculation factor	4
Calculation factor	3.9
Calculation factor	6.1
Performance	
Basic dynamic load rating	39.7 kN
Basic static load rating	17 kN
Reference speed	9500 r/min
Limiting speed	6000 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

5.9 kg CO₂e

Logistics	
Product net weight	1.65 kg
eClass code	23-05-08-06
UNSPSC code	31171532

SKF drawings