



SKF 2307 EM

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	35 mm
Outside diameter	80 mm
Width	31 mm
Shoulder diameter inner ring	46.7 mm
Shoulder diameter outer ring	67 mm
Chamfer dimension	1.5 mm
Abutment dimensions	
Abutment diameter shaft	44 mm
Abutment diameter housing	71 mm
Fillet radius	1.5 mm
Calculation data	
Basic dynamic load rating	39.7 kN
Basic static load rating	11.2 kN
Fatigue load limit	0.585 kN
Reference speed	16000 r/min
Limiting speed	12000 r/min
Permissible angular misalignment	3 °
Calculation factor	0.05
Limiting value	0.46
Calculation factor	1.4
Calculation factor	1.4
Calculation factor	2.1
Performance	
Basic dynamic load rating	39.7 kN
Basic static load rating	11.2 kN
Reference speed	16000 r/min
Limiting speed	12000 r/min
Properties	
Retaining feature, inner ring	None
Locating feature, bearing outer ring	Without
Number of rows	2
Bore type	Cylindrical
Cage	Machined brass
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

2.7 kg CO₂e

Logistics	
Product net weight	0.754 kg
eClass code	23-05-08-06
UNSPSC code	31171532

SKF drawings

