SKF 1213 EKTN9

Self-aligning ball bearing with tapered bore

Self-aligning ball bearings, with a tapered bore, 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. The tapered bore facilitates ease of mounting via adapter sleeves or withdrawal sleeves.

Technical specifications

Bore type	Tapered 1:12

Dimensions	
Bore diameter	65 mm
Outside diameter	120 mm
Width	23 mm
Shoulder diameter inner ring	85.1 mm
Shoulder diameter outer ring	104 mm
Chamfer dimension	1.5 mm

Abutment dimensions	
Abutment diameter housing	111 mm
Fillet radius	1.5 mm

Calculation data	
Basic dynamic load rating	35.1 kN
Basic static load rating	14 kN
Fatigue load limit	0.72 kN
Reference speed	11000 r/min
Limiting speed	7000 r/min
Permissible angular misalignment	2.5 °
Calculation factor	0.04
Limiting value	0.18
Calculation factor	3.6
Calculation factor	3.5
Calculation factor	5.4

Performance	
Basic dynamic load rating	35.1 kN
Basic static load rating	14 kN
Reference speed	11000 r/min
Limiting speed	7000 r/min

Properties	
Retaining feature, inner ring	None
Locating feature, bearing outer ring	Without
Number of rows	2
Bore type	Tapered 1:12
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	4 kg CO₂e

Logistics	
Product net weight	1.1 kg
eClass code	23-05-08-06
UNSPSC code	31171532

SKF drawings