SKF 1217 K

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	85 mm
Outside diameter	150 mm
Width	28 mm
Shoulder diameter inner ring	107 mm
Shoulder diameter outer ring	131 mm
Chamfer dimension	2 mm

Abutment dimensions	
Abutment diameter housing	139 mm
Fillet radius	2 mm

Calculation data	
Basic dynamic load rating	48.8 kN
Basic static load rating	20.8 kN
Fatigue load limit	0.98 kN
Reference speed	9000 r/min
Limiting speed	5600 r/min
Permissible angular misalignment	2.5 °
Calculation factor	0.04
Limiting value	0.17
Calculation factor	4
Calculation factor	3.7
Calculation factor	5.7

Performance	
Basic dynamic load rating	48.8 kN
Basic static load rating	20.8 kN
Reference speed	9000 r/min
Limiting speed	5600 r/min

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

Logistics	
Product net weight	2.01 kg
eClass code	23-05-08-06
UNSPSC code	31171532

SKF drawings