



SKF 11207 TN9

Self-aligning ball bearing with extended inner ring

Self-aligning ball bearings, with extended inner ring, 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. The extended inner ring enables use of commercial grade shafting and axially location on the shaft by means of a slot at one end of the inner ring.

Technical specifications

Bore type	Cylindrical
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Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	52 mm
Width outer ring	17 mm
Shoulder diameter inner ring	47 mm
Shoulder diameter outer ring	60.9 mm
Chamfer dimension	1.1 mm

Abutment dimensions

Abutment diameter housing	65 mm
Fillet radius	1.1 mm

Calculation data

Basic dynamic load rating	19 kN
Basic static load rating	6 kN
Fatigue load limit	0.305 kN
Limiting speed	5600 r/min
Permissible angular misalignment	2.5 °
Calculation factor	0.04
Limiting value	0.23
Calculation factor	2.8
Calculation factor	2.7
Calculation factor	4.2

Performance

Basic dynamic load rating	19 kN
Basic static load rating	6 kN
Reference speed	14000 r/min
Limiting speed	5600 r/min

Properties

Retaining feature, inner ring	Locating slot
Locating feature, bearing outer ring	Without
Number of rows	2
Bore type	Cylindrical
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	1.9 kg CO ₂ e

Logistics	
Product net weight	0.54 kg
eClass code	23-05-08-06
UNSPSC code	31171532

