



SKF 2309 E-2RS1TN9

Self-aligning ball bearing with seals on both sides

Self-aligning ball bearings, with seals on both sides, 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 integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

Technical specifications

Bore type	Cylindrical
Dimensions	
Bore diameter	45 mm
Outside diameter	100 mm
Width	36 mm
Recess diameter inner ring	60.9 mm
Recess diameter outer ring	90 mm
Chamfer dimension	1.5 mm
Abutment dimensions	
Abutment diameter shaft	54 mm
Abutment diameter shaft	60.5 mm
Abutment diameter housing	91 mm
Fillet radius	1.5 mm
Calculation data	
Basic dynamic load rating	39 kN
Basic static load rating	13.4 kN
Fatigue load limit	0.695 kN
Reference speed	12000 r/min
Limiting speed	4300 r/min
Permissible angular misalignment	1.5 °
Calculation factor	0.05
Limiting value	0.23
Calculation factor	2.8
Calculation factor	2.7
Calculation factor	4.2
Performance	
Basic dynamic load rating	39 kN
Basic static load rating	13.4 kN
Reference speed	12000 r/min
Limiting speed	4300 r/min
Properties	
Retaining feature, inner ring	None
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	Seal on both sides
Sealing type	Contact

Lubricant	Grease
Relubrication feature	Without
Indicative carbon footprint for new product	4.4 kg CO ₂ e

Logistics	
Product net weight	1.23 kg
eClass code	23-05-08-06
UNSPSC code	31171532

SKF drawings