



SKF 2203 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	17 mm
Outside diameter	40 mm
Width	16 mm
Recess diameter inner ring	21.1 mm
Recess diameter outer ring	34.98 mm
Chamfer dimension	0.6 mm
Abutment dimensions	
Abutment diameter shaft	21 mm
Abutment diameter shaft	21 mm
Abutment diameter housing	35.8 mm
Fillet radius	0.6 mm
Calculation data	
Basic dynamic load rating	8.84 kN
Basic static load rating	2.2 kN
Fatigue load limit	0.114 kN
Reference speed	34000 r/min
Limiting speed	12000 r/min
Permissible angular misalignment	1.5 °
Calculation factor	0.05
Limiting value	0.31
Calculation factor	2.2
Calculation factor	2
Calculation factor	3.1
Performance	
Basic dynamic load rating	8.84 kN
Basic static load rating	2.2 kN
Reference speed	34000 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	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	0.32 kg CO ₂ e

Logistics	
Product net weight	0.089 kg
eClass code	23-05-08-06
UNSPSC code	31171532

SKF drawings