



SKF 2209 E-2RS1KTN9

Self-aligning ball bearing with tapered bore and seals on both sides

Self-aligning ball bearings, with a tapered bore and 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 tapered bore facilitates ease of mounting via adapter/withdrawal sleeves. The integral sealing can prolong bearing service life by keeping lubricant in the bearings and contaminants out.

Technical specifications

Bore type	Tapered 1:12
Dimensions	
Bore diameter	45 mm
Outside diameter	85 mm
Width	23 mm
Recess diameter inner ring	52.9 mm
Recess diameter outer ring	75.25 mm
Chamfer dimension	1.1 mm
Abutment dimensions	
Abutment diameter housing	78 mm
Fillet radius	1.1 mm
Calculation data	
Basic dynamic load rating	22.9 kN
Basic static load rating	7.8 kN
Fatigue load limit	0.4 kN
Reference speed	15000 r/min
Limiting speed	5300 r/min
Permissible angular misalignment	1.5 °
Calculation factor	0.05
Limiting value	0.21
Calculation factor	3.2
Calculation factor	3
Calculation factor	4.6
Performance	
Basic dynamic load rating	22.9 kN
Basic static load rating	7.8 kN
Reference speed	15000 r/min
Limiting speed	5300 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	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without

Indicative carbon footprint for new product	1.9 kg CO ₂ e
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Logistics	
Product net weight	0.519 kg
eClass code	23-05-08-06
UNSPSC code	31171532

SKF drawings