



## SKF 2307 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
<b>Dimensions</b>	
Bore diameter	35 mm
Outside diameter	80 mm
Width	31 mm
Recess diameter inner ring	43.7 mm
Recess diameter outer ring	69.2 mm
Chamfer dimension	1.5 mm
<b>Abutment dimensions</b>	
Abutment diameter shaft	43.5 mm
Abutment diameter shaft	43.5 mm
Abutment diameter housing	71 mm
Fillet radius	1.5 mm
<b>Calculation data</b>	
Basic dynamic load rating	26.5 kN
Basic static load rating	8.5 kN
Fatigue load limit	0.43 kN
Reference speed	15000 r/min
Limiting speed	5600 r/min
Permissible angular misalignment	1.5 °
Calculation factor	0.05
Limiting value	0.25
Calculation factor	2.5
Calculation factor	2.5
Calculation factor	3.9
<b>Performance</b>	
Basic dynamic load rating	26.5 kN
Basic static load rating	8.5 kN
Reference speed	15000 r/min
Limiting speed	5600 r/min
<b>Properties</b>	
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	2.5 kg CO <sub>2</sub> e

<b>Logistics</b>	
Product net weight	0.693 kg
eClass code	23-05-08-06
UNSPSC code	31171532

SKF drawings

