

SKF 53309

Single direction thrust ball bearing with sphered housing washer



Single direction thrust ball bearings, with sphered housing washer, can accommodate axial loads in one direction. They must not be subjected to any radial load. Many of the components are interchangeable. The shaft washers have a ground bore that enables an interference fit. The sphered housing washers can accommodate initial misalignment when configured correctly with a sphered seat washer or a machine component with a sphered surface.

Technical specifications

Dimensions	
Bore diameter	45 mm
Outside diameter	85 mm
Height	30.1 mm
Height bearing including seat washer	33 mm
Outside diameter shaft washer	85 mm
Inner diameter housing washer	47 mm
Inner diameter seat washer	65 mm
Outside diameter seat washer	90 mm
Height seat washer	10 mm
Radius sphered housing washer	64 mm
Centre height housing washer sphere	25 mm
Chamfer dimension washer	1 mm
Radius of aligning surface	64 mm

Abutment dimensions	
Abutment diameter shaft	69 mm
Abutment diameter housing	65 mm
Fillet radius	1 mm

Calculation data	
Basic dynamic load rating	76.1 kN
Basic static load rating	153 kN
Fatigue load limit	5.6 kN
Reference speed	2600 r/min
Limiting speed	3800 r/min
Minimum load factor	0.12

Associated products	
Seat washer	U 309

Performance	
Basic dynamic load rating	76.1 kN
Basic static load rating	153 kN
Reference speed	2600 r/min
Limiting speed	3800 r/min

Properties	
Axial load capability	Single-direction
Number of rows	1
Cage	Sheet metal
Housing washer type	Sphered
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Indicative carbon footprint for new product	2.3 kg CO ₂

Logistics	

Product net weight	0.645 kg
eClass code	23-05-10-01
UNSPSC code	31171507

SKF drawings



