

# SKF 53311

## 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	55 mm
Outside diameter	105 mm
Height	39.3 mm
Height bearing including seat washer	42 mm
Outside diameter shaft washer	105 mm
Inner diameter housing washer	57 mm
Inner diameter seat washer	80 mm
Outside diameter seat washer	110 mm
Height seat washer	11.5 mm
Radius sphered housing washer	80 mm
Centre height housing washer sphere	30 mm
Chamfer dimension washer	1.1 mm
Radius of aligning surface	80 mm

Abutment dimensions	
Abutment diameter shaft	85 mm
Abutment diameter housing	80 mm
Fillet radius	1 mm

Calculation data	
Basic dynamic load rating	101 kN
Basic static load rating	224 kN
Fatigue load limit	8.3 kN
Reference speed	2200 r/min
Limiting speed	3000 r/min
Minimum load factor	0.26

Associated products	
Seat washer	U 311

Performance	
Basic dynamic load rating	101 kN
Basic static load rating	224 kN
Reference speed	2200 r/min
Limiting speed	3000 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	4.9 kg CO <sub>2</sub>

Logistics	

Product net weight	1.36 kg
eClass code	23-05-10-01
UNSPSC code	31171507

**SKF drawings**

