



Image may differ from product. See technical specification for details.

# 29317 E

### Spherical roller thrust bearing with stamped steel cage

Spherical roller thrust bearings accommodate very heavy axial and considerable radial loads. They have the highest load rating of all thrust bearings, enabling compact, high power density bearing arrangements. By combining two or more spherical roller thrust bearings, it is possible to create a bearing arrangement that is either self-aligning, allowing misalignment of the shaft, or very stiff.

- High load carrying capacity
- Can accommodate combined loads
- Allow misalignment or create very stiff bearing arrangements
- Long service life and low friction
- Separable design

# Overview

### Dimensions

Bore diameter	3.346 in
Outside diameter	5.906 in
Height	1.535 in

### Performance

Basic dynamic load rating	85 427 lbf
Basic static load rating	238 297 lbf
Reference speed	2 400 r/min
Limiting speed	4 000 r/min
SKF performance class	SKF Explorer

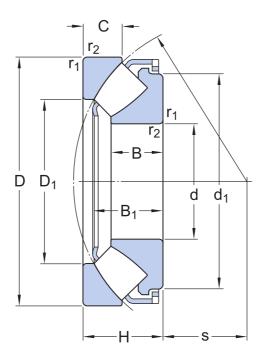
# Properties

Locating feature, housing washer	None
Bore type	Cylindrical
Cage	Sheet metal
Tolerance class	Normal

# Logistics

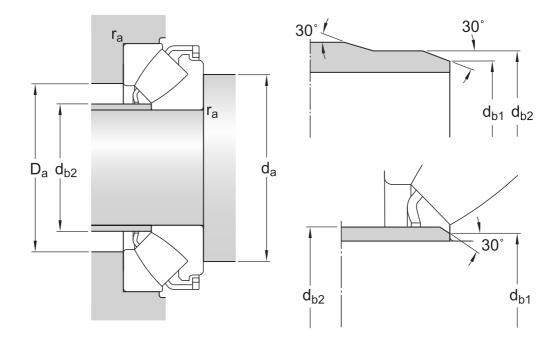
Product net weight	6.085 lb
eClass code	23-05-11-03
UNSPSC code	31171507

# Technical specification



## Dimensions

d	3.346 in	Bore diameter
D	5.906 in	Outside diameter
Н	1.535 in	Height
$d_1$	≈ 5.276 in	Outside diameter of shaft washer end side face
$D_1$	≈ 4.331 in	Shoulder diameter outer ring
В	0.965 in	Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a stamped steel cage)
$B_1$	1.331 in	Height shaft washer + cage
С	0.787 in	Height housing washer
S	1.969 in	Distance from shaft washer end side face to pressure point
r <sub>1,2</sub>	min. 0.059 in	Chamfer dimension shaft washer



## Abutment dimensions

d <sub>a</sub>	min. 4.528 in	Diameter of shaft abutment
$d_{b1}$	max. 3.543 in	Abutment diameter of spacer ring
d <sub>b2</sub>	max. 3.543 in	Outside diameter of spacer ring
Da	max. 5.079 in	Diameter of housing abutment
r <sub>a</sub>	max. 0.059 in	Fillet radius

## Calculation data

Basic dynamic load rating	С	85 427 lbf
Basic static load rating	$C_0$	238 297 lbf
Fatigue load limit	$P_{u}$	29 000 lbf
Reference speed		2 400 r/min
Limiting speed		4 000 r/min
Minimum axial load factor	А	0.11

### More Information

### **Engineering** Tools Product details information SimPro Quick Designs and variants Principles of rolling bearing selection General bearing specifications SKF Product select General bearing knowledge Loads Bearing Frequency Calculator Bearing selection process Temperature limits LubeSelect for SKF greases Bearing failure and how to prevent it Permissible speed Heater selection tool Design considerations Lubrication Mounting Designation system



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