



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

# 33209

#### Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

### Overview

#### Dimensions

Bore diameter	1.772 in
Outside diameter	3.346 in
Width, total	1.26 in
Width, inner ring	1.26 in
Width, outer ring	0.984 in
Contact angle	14.417 °

### Performance

Basic dynamic load rating	29 675 lbf
Basic static load rating	32 148 lbf
Reference speed	6 000 r/min
Limiting speed	7 500 r/min
SKF performance class	SKF Explorer

### Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Unit system	Metric

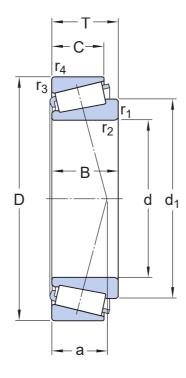
## Logistics

Product net weight	1.742 lb
eClass code	23-05-09-10
UNSPSC code	31171516

# Technical specification

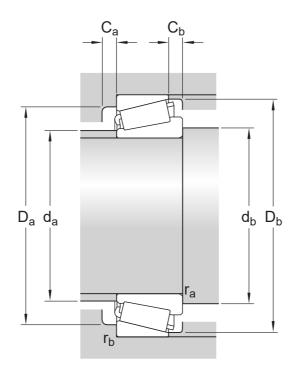
Dimension series

3DE



### Dimensions

d	1.772 in	Bore diameter
D	3.346 in	Outside diameter
Т	1.26 in	Total width
dı	≈ 2.573 in	Shoulder diameter of inner ring
В	1.26 in	Width of inner ring
С	0.984 in	Width of outer ring
٢1,2	min. 0.059 in	Chamfer dimension of inner ring
٢3,4	min. 0.059 in	Chamfer dimension of outer ring
a	0.854 in	Distance side face to pressure point



### Abutment dimensions

d <sub>a</sub>	max. 2.047 in	Diameter of shaft abutment
d <sub>b</sub>	min. 2.106 in	Diameter of shaft abutment
Da	min. 2.835 in	Diameter of housing abutment
Da	max. 3.051 in	Diameter of housing abutment
D <sub>b</sub>	min. 3.189 in	Diameter of housing abutment
C <sub>a</sub>	min. 0.197 in	Minimum width of space required in housing on large side face
C <sub>b</sub>	min. 0.276 in	Minimum width of space required in housing on small side face
٢ <sub>a</sub>	max. 0.059 in	Radius of shaft fillet
r <sub>b</sub>	max. 0.059 in	Radius of housing fillet

### Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	29 675 lbf
Basic static load rating	Co	32 148 lbf
Fatigue load limit	Pu	3 664 lbf
Reference speed		6 000 r/min
Limiting speed		7 500 r/min

#### GENERAL BEARING SPECIFICATIONS

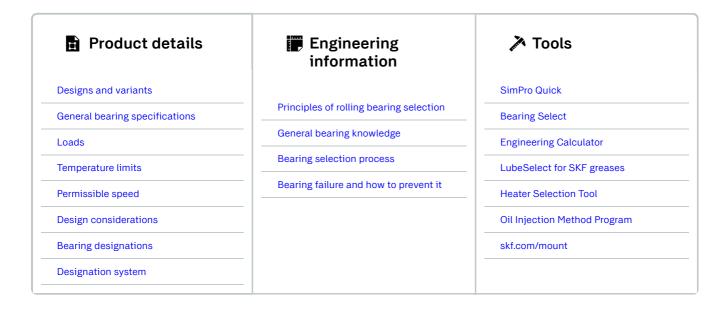
• Tolerances:

metric bearings: Normal and CL7C, CLN inch bearings: Normal and CL, deviating width

#### **BEARING INTERFACES**

- Seat tolerances for standard conditions
- Tolerances and resultant fit

### **More Information**





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