



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

# 61916

## Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

# Overview

## Dimensions

Bore diameter	3.15 in
Outside diameter	4.331 in
Width	0.63 in

## Performance

Basic dynamic load rating	5 643 lbf
Basic static load rating	4 586 lbf
Reference speed	12 000 r/min
Limiting speed	7 500 r/min

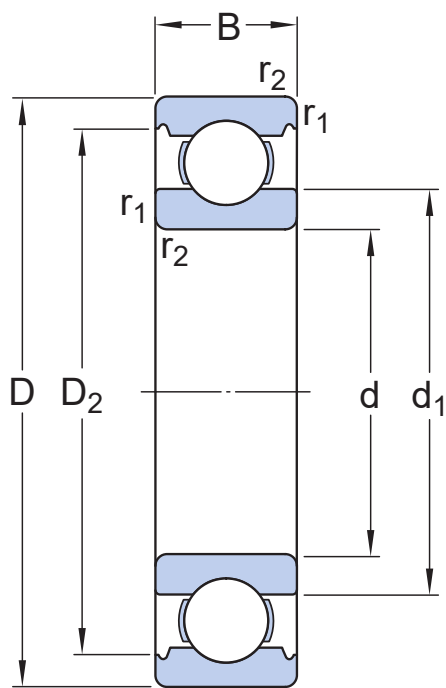
## Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

## Logistics

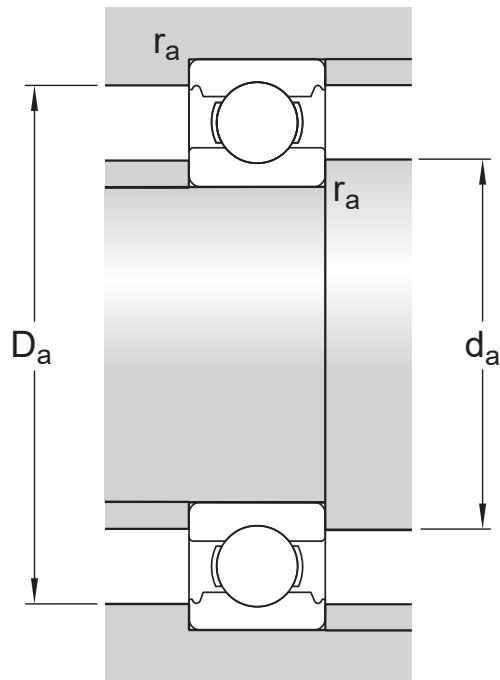
Product net weight	0.8065 lb
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	3.15 in	Bore diameter
t <sub>Δdmp</sub>	-15 – 0 μm	Deviation limits of mid-range bore diameter
D	4.331 in	Outside diameter
t <sub>ΔDmp</sub>	-15 – 0 μm	Deviation limits of mid-range outside diameter
B	0.63 in	Width
t <sub>ΔBs</sub>	-150 – 0 μm	Deviation limits of ring width
d <sub>1</sub>	≈ 3.535 in	Shoulder diameter
r <sub>1,2</sub>	min. 0.039 in	Chamfer dimension
	Normal	ISO tolerance class for dimensions



## Abutment dimensions

$d_a$	min. 3.331 in	Diameter of shaft abutment
$D_a$	max. 4.134 in	Diameter of housing abutment
$r_a$	max. 0.039 in	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	C	5 643 lbf
Basic static load rating	$C_0$	4 586 lbf
Fatigue load limit	$P_u$	229 lbf
Reference speed		12 000 r/min
Limiting speed		7 500 r/min

## Tolerances of run-out

Range of section height at inner ring of assembled bearing	$t_{kia}$	20 $\mu\text{m}$
Range of section height at outer ring of assembled bearing	$t_{kea}$	35 $\mu\text{m}$
ISO tolerance class for geometrical tolerances		Normal

## Tolerances and clearances

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### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Radial internal clearance: Classes C2 to C5

## BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits

# More Information

 Product details	 Engineering information	 Tools
<a href="#">Single row deep groove ball bearings</a>	<a href="#">Principles of rolling bearing selection</a>	<a href="#">SKF Product select</a>
<a href="#">Stainless steel deep groove ball bearings</a>	<a href="#">General bearing knowledge</a>	<a href="#">SimPro Quick</a>
<a href="#">Single row deep groove ball bearings with filling slots</a>	<a href="#">Bearing selection process</a>	<a href="#">Bearing Frequency Calculator</a>
<a href="#">Double row deep groove ball bearings</a>	<a href="#">Bearing interfaces</a>	<a href="#">LubeSelect for SKF greases</a>
<a href="#">General bearing specifications</a>	<a href="#">Seat tolerances for standard conditions</a>	<a href="#">Heater selection tool</a>
<a href="#">Loads</a>	<a href="#">Selecting internal clearance</a>	
<a href="#">Temperature limits</a>	<a href="#">Lubrication</a>	
<a href="#">Permissible speed</a>	<a href="#">Sealing, mounting and dismounting</a>	
<a href="#">Designation system</a>	<a href="#">Bearing failure and how to prevent it</a>	

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