



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

## 618/630 MA

### 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	24.803 in
Outside diameter	30.709 in
Width	2.717 in

## Performance

Basic dynamic load rating	99 366 lbf
Basic static load rating	216 941 lbf
Reference speed	1 400 r/min
Limiting speed	1 100 r/min

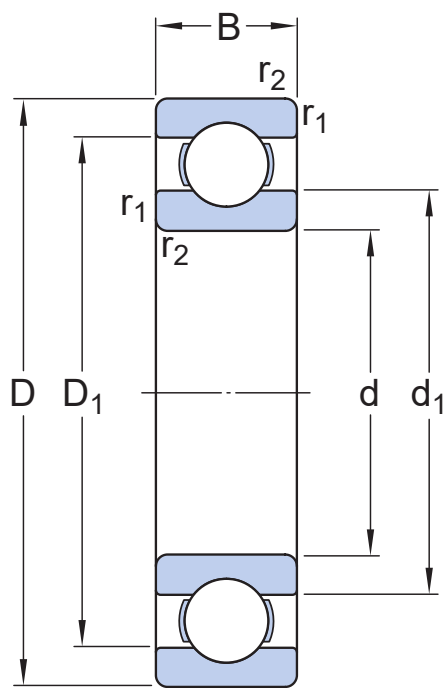
## Properties

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

## Logistics

Product net weight	159.174 lb
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	24.803 in	Bore diameter
t <sub>Δdmp</sub>	-50 – 0 μm	Deviation limits of mid-range bore diameter
D	30.709 in	Outside diameter
t <sub>ΔDmp</sub>	-75 – 0 μm	Deviation limits of mid-range outside diameter
B	2.717 in	Width
t <sub>ΔBs</sub>	-500 – 0 μm	Deviation limits of ring width
d <sub>1</sub>	≈ 26.705 in	Shoulder diameter
D <sub>1</sub>	≈ 28.797 in	Shoulder diameter
r <sub>1,2</sub>	min. 0.157 in	Chamfer dimension
	Normal	ISO tolerance class for dimensions



## Abutment dimensions

$d_a$	min. 25.394 in	Diameter of shaft abutment
$D_a$	max. 30.118 in	Diameter of housing abutment
$r_a$	max. 0.118 in	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	C	99 366 lbf
Basic static load rating	$C_0$	216 941 lbf
Fatigue load limit	$P_u$	3 440 lbf
Reference speed		1 400 r/min
Limiting speed		1 100 r/min

## Tolerances of run-out

Range of section height at inner ring of assembled bearing	$t_{kia}$	70 $\mu\text{m}$
Range of section height at outer ring of assembled bearing	$t_{kea}$	120 $\mu\text{m}$
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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