



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

618/1320 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	51.969 in
Outside diameter	62.992 in
Width	4.803 in

Performance

Basic dynamic load rating	214 917 lbf
Basic static load rating	708 148 lbf
Reference speed	480 r/min
Limiting speed	400 r/min

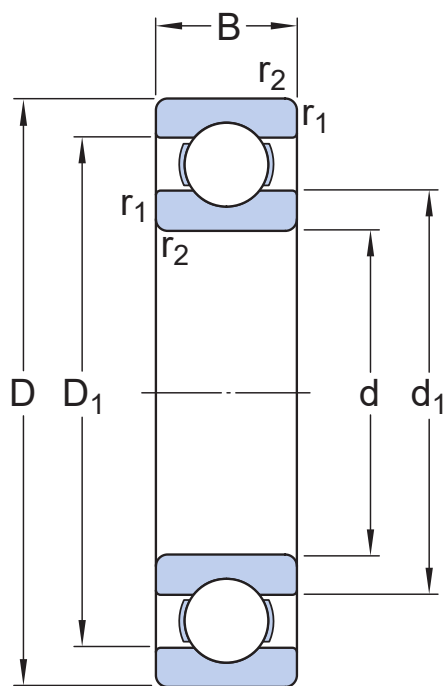
Properties

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

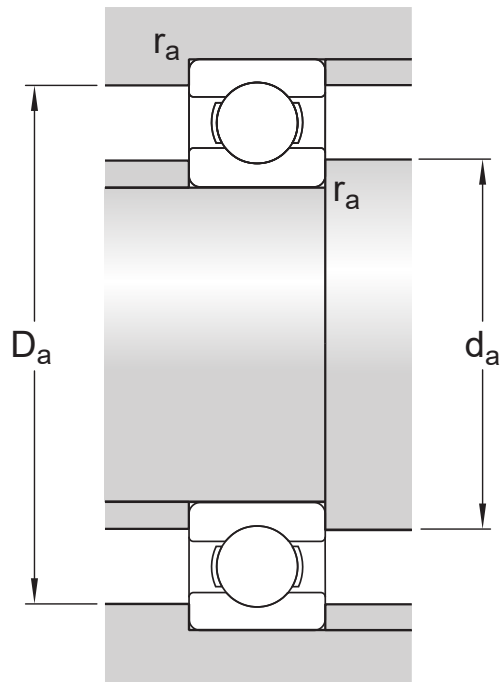
Product net weight	1 102.311 lb
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	51.969 in	Bore diameter
t _{Δdmp}	-160 – 0 μm	Deviation limits of mid-range bore diameter
D	62.992 in	Outside diameter
t _{ΔDmp}	-160 – 0 μm	Deviation limits of mid-range outside diameter
B	4.803 in	Width
t _{ΔBs}	-1600 – 0 μm	Deviation limits of ring width
d ₁	≈ 55.669 in	Shoulder diameter
D ₁	≈ 59.27 in	Shoulder diameter
r _{1,2}	min. 0.236 in	Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 52.874 in	Diameter of shaft abutment
D_a	max. 62.087 in	Diameter of housing abutment
r_a	max. 0.197 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	214 917 lbf
Basic static load rating	C_0	708 148 lbf
Fatigue load limit	P_u	7 981 lbf
Reference speed		480 r/min
Limiting speed		400 r/min

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{kia}	120 μm
Range of section height at outer ring of assembled bearing	t_{kea}	190 μm
ISO tolerance class for geometrical tolerances		Normal

Tolerances and clearances




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

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