



Image may differ from product. See specification for details.

6319 M/C3VL0241

INSOCOAT® deep groove ball bearing

INSOCOAT single row deep groove ball bearings feature an electrically insulating coating on the outside surfaces of either the inner or outer bearing ring. This keeps stray electric currents from passing through the bearings, protecting them against electrical erosion damage and helping prevent lubricant degradation resulting from electric current discharge. As with deep groove ball bearings generally, they 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.

- Coating protects against electrical erosion damage
- Reduced lubricant degradation resulting from electric current discharge
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	3.7402 in
Outside diameter	7.874 in
Width	1.7717 in

Performance

Basic dynamic load rating	35 745 lbf
Basic static load rating	26 527 lbf
Reference speed	7 000 r/min
Limiting speed	6 300 r/min

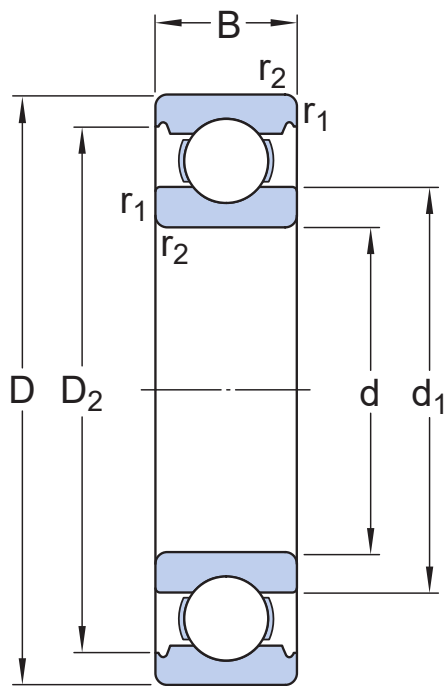
Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined brass
Matched arrangement	No
Radial internal clearance	C3
Material, bearing	Bearing steel
Coating	Insulation coating on outer ring
Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative product carbon footprint to manufacture	51.761 lb CO ₂ e

Logistics

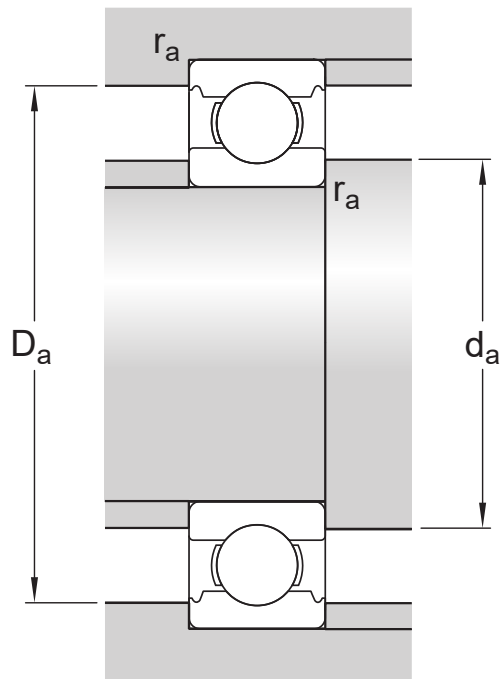
Product net weight	14.378 lb
eClass code	23-05-09-01
UNSPSC code	31171537

Technical specification



Dimensions

d	3.7402 in	Bore diameter
D	7.874 in	Outside diameter
B	1.7717 in	Width
d ₁	≈ 5.0276 in	Shoulder diameter inner ring
D ₂	≈ 6.8504 in	Recess diameter outer ring shoulder
r _{1,2}	min. 0.1181 in	Chamfer dimension



Abutment dimensions

d _a	min. 4.2913 in	Abutment diameter shaft
D _a	min. 7.0472 in	Abutment diameter shaft
D _a	max. 7.3228 in	Abutment diameter housing
r _a	max. 0.0984 in	Fillet radius

Calculation data

Basic dynamic load rating	C	35 745 lbf
Basic static load rating	C ₀	26 527 lbf
Fatigue load limit	P _u	933 lbf
Reference speed		7 000 r/min
Limiting speed		6 300 r/min
Calculation factor	k _r	0.03
Calculation factor	f ₀	13.3

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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