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

7068 BGM

Single row angular contact ball bearing

These single row angular contact ball bearings can accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They can operate at high speeds and, depending on the variant, even very high speeds. They are more suitable than deep groove ball bearings for supporting large axial forces acting in one direction.

- High-speed capability
- Accommodate relatively high radial loads and large unilateral axial loads

Overview

Dimensions

Bore diameter	13.386 in
Outside diameter	20.472 in
Width	3.228 in
Contact angle	40 °

Performance

Basic dynamic load rating	100 939 lbf
Basic static load rating	183 219 lbf
Reference speed	1 200 r/min
Limiting speed	1 200 r/min

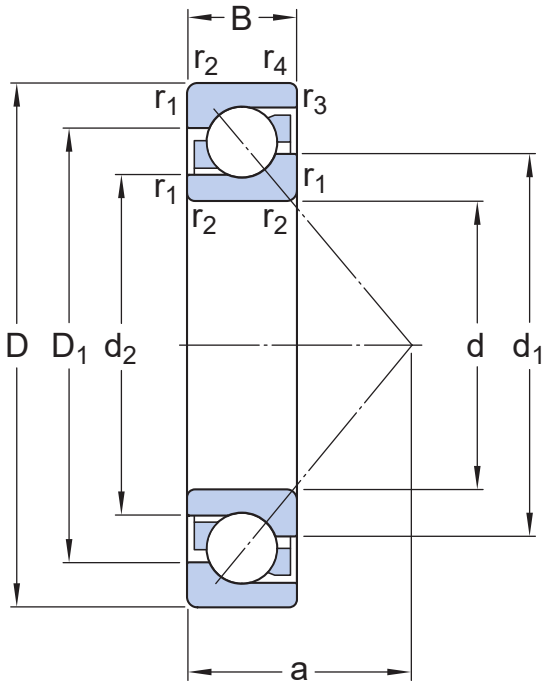
Properties

Contact type	Normal contact (two-point contact)
Number of rows	1
Locating feature, bearing outer ring	None
Ring type	One-piece inner and outer rings
Cage	Machined brass
Matched arrangement	No
Universal matching bearing	Yes
Axial internal clearance	Not applicable
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

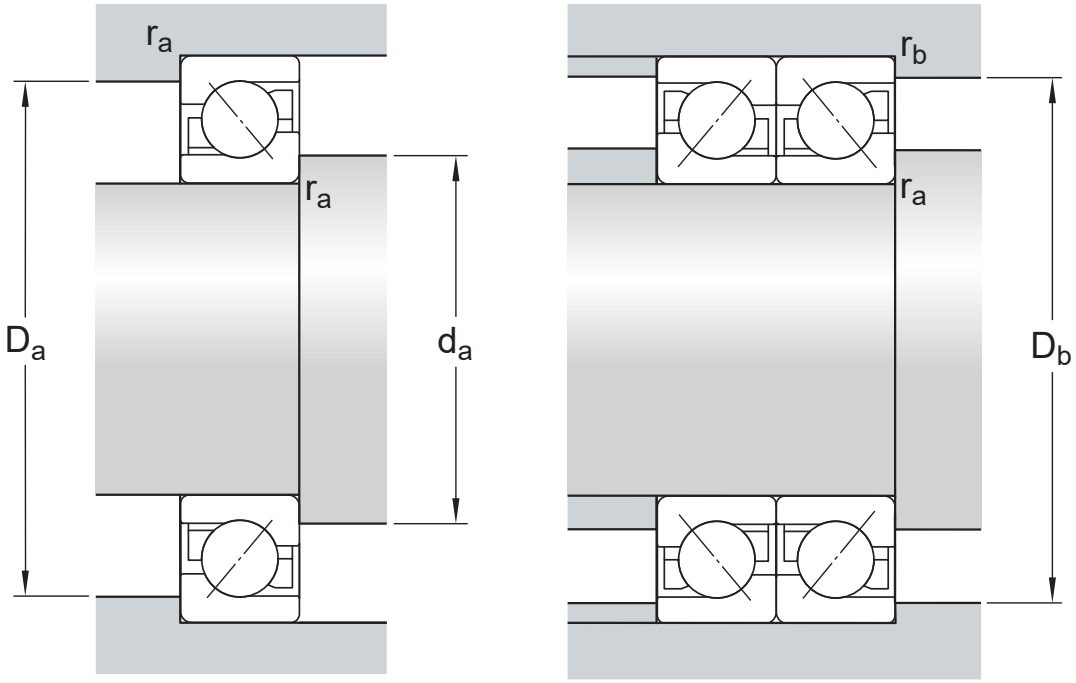
Product net weight	131.175 lb
eClass code	23-05-08-03
UNSPSC code	31171531

Technical specification



Dimensions

d	13.386 in	Bore diameter
D	20.472 in	Outside diameter
B	3.228 in	Width
d_1	≈ 16.185 in	Shoulder diameter of inner ring (large side face)
d_2	≈ 14.941 in	Shoulder diameter of inner ring (small side face)
D_1	≈ 17.768 in	Shoulder diameter of outer ring (large side face)
a	8.701 in	Distance side face to pressure point
$r_{1,2}$	min. 0.197 in	Chamfer dimension
$r_{3,4}$	min. 0.079 in	Chamfer dimension



Abutment dimensions

d_a	min. 14.094 in	Diameter of shaft abutment
D_a	max. 19.764 in	Abutment diameter housing
D_b	max. 20.118 in	Diameter of housing abutment
r_a	max. 0.157 in	Radius of fillet
r_b	max. 0.079 in	Radius of fillet

Calculation data

Basic dynamic load rating	C	100 939 lbf
Basic static load rating	C_0	183 219 lbf
Fatigue load limit	P_u	3 732 lbf
Reference speed		1 200 r/min
Limiting speed		1 200 r/min

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Internal clearance: CA+CB+CC, G
- Preload: GA+GB+GC

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

More Information

Product details

- Designs and variants
- General bearing specifications
- Loads
- Temperature limits
- Permissible speed
- Design considerations
- Designation system

Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing interfaces
- Seat tolerances for standard conditions
- Selecting internal clearance or preload
- Lubrication
- Sealing, mounting and dismounting
- Bearing failure and how to prevent it

Tools

- SKF Product select
- SimPro Quick
- Bearing Frequency Calculator
- LubeSelect for SKF greases
- Heater selection tool
- SKF mounting and dismounting instructions

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