



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

## 7208 BECBY

### 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	1.575 in
Outside diameter	3.15 in
Width	0.709 in
Contact angle	40 °

## Performance

Basic dynamic load rating	8 206 lbf
Basic static load rating	5 845 lbf
Reference speed	11 000 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

## 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	Brass sheet metal
Matched arrangement	No
Universal matching bearing	Yes
Axial internal clearance	Not applicable
Matched condition (axial clearance/ preload)	Axial clearance CB
Tolerance class	Class P6 (P6)
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

## Logistics

Product net weight	0.8708 lb
eClass code	23-05-08-03
UNSPSC code	31171531

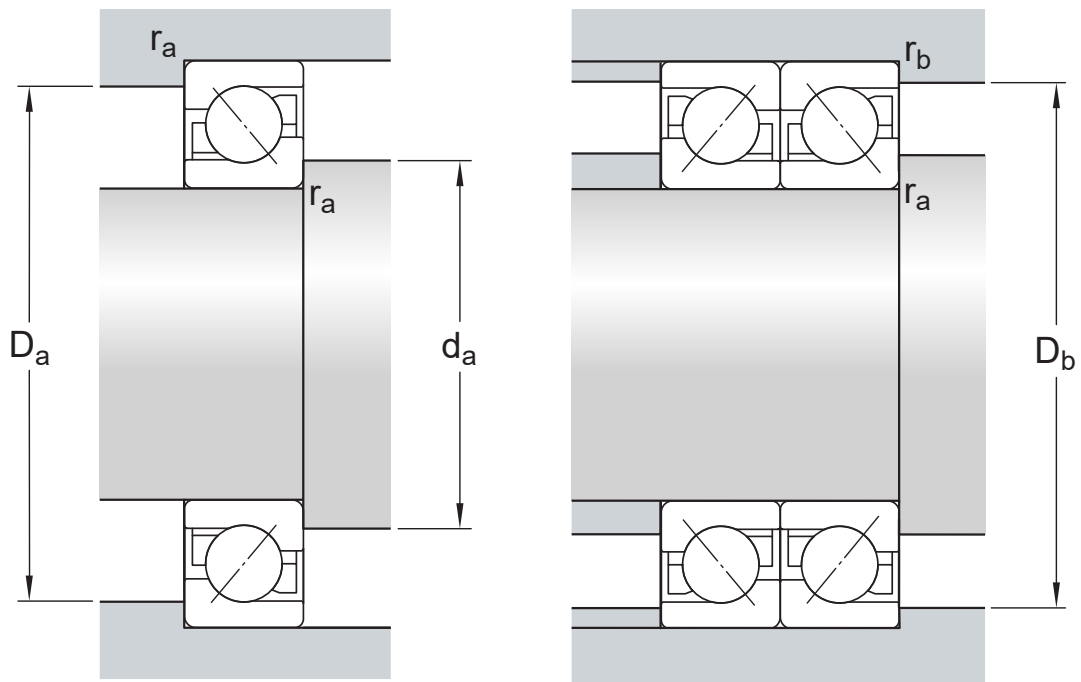


Technical specification



Dimensions

d	1.575 in	Bore diameter
D	3.15 in	Outside diameter
B	0.709 in	Width
d <sub>1</sub>	≈ 2.207 in	Shoulder diameter of inner ring (large side face)
d <sub>2</sub>	≈ 1.892 in	Shoulder diameter of inner ring (small side face)
D <sub>1</sub>	≈ 2.581 in	Shoulder diameter of outer ring (large side face)
a	1.339 in	Distance side face to pressure point
r <sub>1,2</sub>	min. 0.043 in	Chamfer dimension
r <sub>3,4</sub>	min. 0.024 in	Chamfer dimension



## Abutment dimensions

$d_a$	min. 1.85 in	Diameter of shaft abutment
$D_a$	max. 2.874 in	Abutment diameter housing
$D_b$	max. 2.984 in	Diameter of housing abutment
$r_a$	max. 0.039 in	Radius of fillet
$r_b$	max. 0.024 in	Radius of fillet

## Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	8 206 lbf
Basic static load rating	$C_0$	5 845 lbf
Fatigue load limit	$P_u$	247 lbf
Reference speed		11 000 r/min
Limiting speed		11 000 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

<div> <b>Product details</b></div> <div><div>Designs and variants</div><div>General bearing specifications</div><div>Loads</div><div>Temperature limits</div><div>Permissible speed</div><div>Design considerations</div><div>Designation system</div></div>	<div> <b>Engineering information</b></div> <div><div>Principles of rolling bearing selection</div><div>General bearing knowledge</div><div>Bearing selection process</div><div>Bearing interfaces</div><div>Seat tolerances for standard conditions</div><div>Selecting internal clearance or preload</div><div>Lubrication</div><div>Sealing, mounting and dismounting</div><div>Bearing failure and how to prevent it</div></div>	<div> <b>Tools</b></div> <div><div>SKF Product select</div><div>SimPro Quick</div><div>Bearing Frequency Calculator</div><div>LubeSelect for SKF greases</div><div>Heater selection tool</div><div>SKF mounting and dismounting instructions</div></div>
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