



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

## 7215 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	2.953 in
Outside diameter	5.118 in
Width	0.984 in
Contact angle	40 °

## Performance

Basic dynamic load rating	16 523 lbf
Basic static load rating	14 725 lbf
Reference speed	6 300 r/min
Limiting speed	6 300 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	2.782 lb
eClass code	23-05-08-03
UNSPSC code	31171531

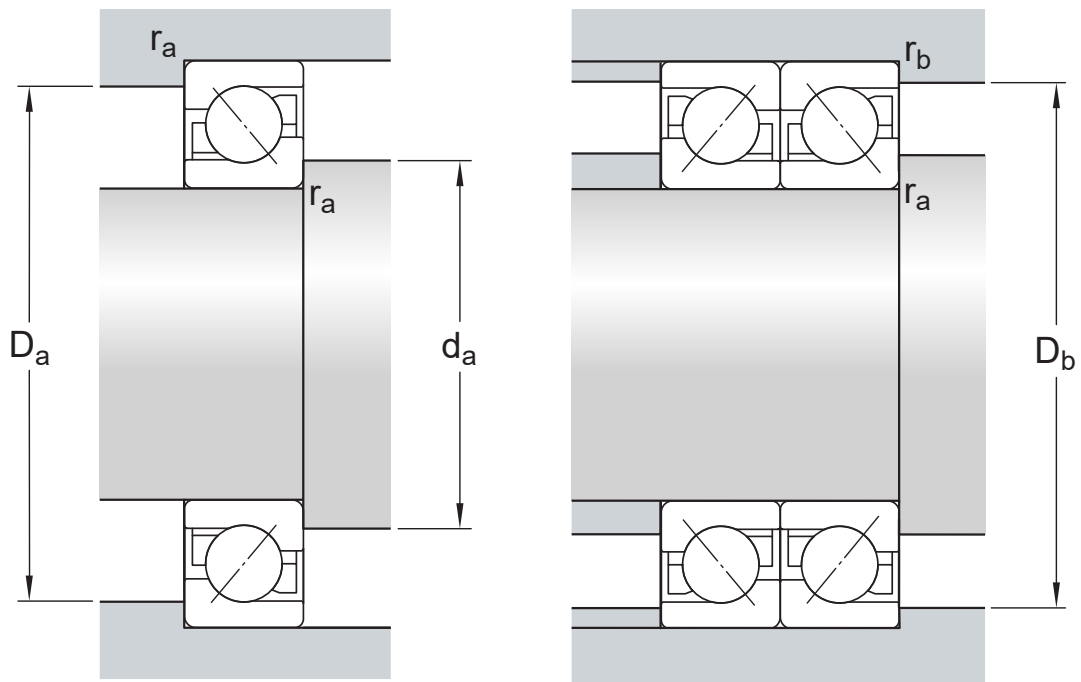


Technical specification



Dimensions

d	2.953 in	Bore diameter
D	5.118 in	Outside diameter
B	0.984 in	Width
d <sub>1</sub>	≈ 3.791 in	Shoulder diameter of inner ring (large side face)
d <sub>2</sub>	≈ 3.356 in	Shoulder diameter of inner ring (small side face)
D <sub>1</sub>	≈ 4.335 in	Shoulder diameter of outer ring (large side face)
a	2.205 in	Distance side face to pressure point
r <sub>1,2</sub>	min. 0.059 in	Chamfer dimension
r <sub>3,4</sub>	min. 0.039 in	Chamfer dimension



## Abutment dimensions

$d_a$	min. 3.307 in	Diameter of shaft abutment
$D_a$	max. 4.764 in	Abutment diameter housing
$D_b$	max. 4.882 in	Diameter of housing abutment
$r_a$	max. 0.059 in	Radius of fillet
$r_b$	max. 0.039 in	Radius of fillet

## Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	16 523 lbf
Basic static load rating	$C_0$	14 725 lbf
Fatigue load limit	$P_u$	607 lbf
Reference speed		6 300 r/min
Limiting speed		6 300 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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