



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

7315 BECBJ

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	6.299 in
Width	1.457 in
Contact angle	40 °

Performance

Basic dynamic load rating	29 675 lbf
Basic static load rating	23 380 lbf
Reference speed	5 300 r/min
Limiting speed	5 300 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	Steel 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

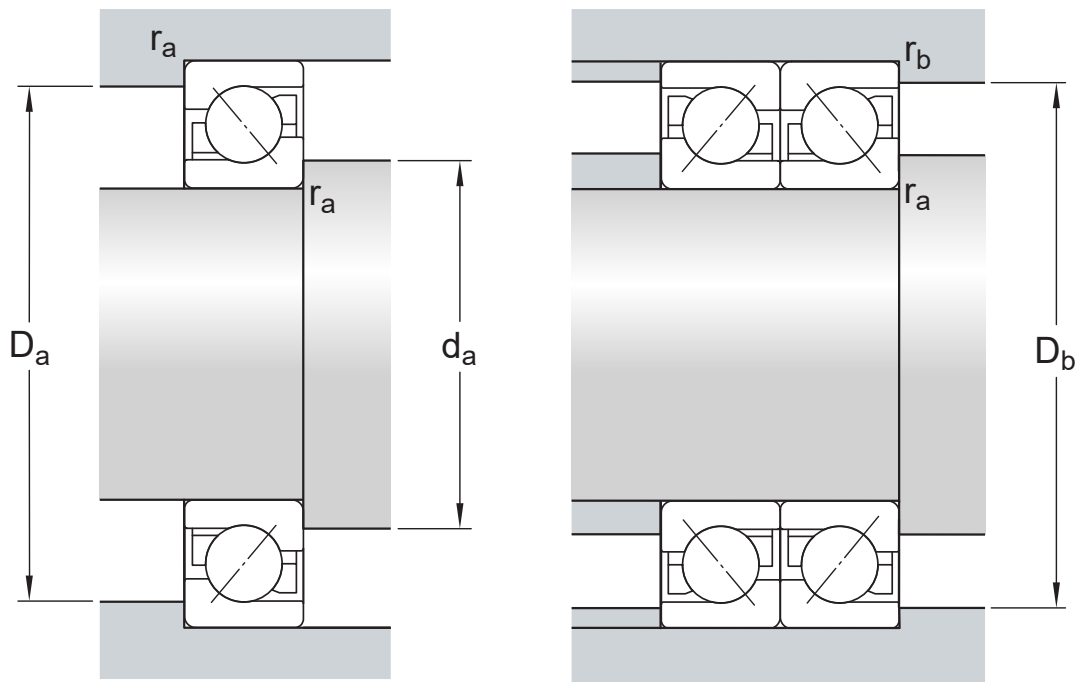
Product net weight	7.055 lb
eClass code	23-05-08-03
UNSPSC code	31171531

Technical specification



Dimensions

d	2.953 in	Bore diameter
D	6.299 in	Outside diameter
B	1.457 in	Width
d ₁	≈ 4.262 in	Shoulder diameter of inner ring (large side face)
d ₂	≈ 3.588 in	Shoulder diameter of inner ring (small side face)
D ₁	≈ 5.075 in	Shoulder diameter of outer ring (large side face)
a	2.677 in	Distance side face to pressure point
r _{1,2}	min. 0.083 in	Chamfer dimension
r _{3,4}	min. 0.043 in	Chamfer dimension



Abutment dimensions

d_a	min. 3.425 in	Diameter of shaft abutment
D_a	max. 5.827 in	Abutment diameter housing
D_b	max. 6.024 in	Diameter of housing abutment
r_a	max. 0.079 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	29 675 lbf
Basic static load rating	C_0	23 380 lbf
Fatigue load limit	P_u	933 lbf
Reference speed		5 300 r/min
Limiting speed		5 300 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> Product details</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> Engineering information</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> Tools</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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