



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

## 7307 BEGAPH

### 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	1.378 in
Outside diameter	3.15 in
Width	0.827 in
Contact angle	40 °

## Performance

Basic dynamic load rating	9 330 lbf
Basic static load rating	5 957 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	Non-metallic
Matched arrangement	No
Universal matching bearing	Yes
Axial internal clearance	Not applicable
Matched condition (axial clearance/ preload)	Light preload
Tolerance class	Class P6 (P6)
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

## Logistics

Product net weight	0.9789 lb
eClass code	23-05-08-03
UNSPSC code	31171531

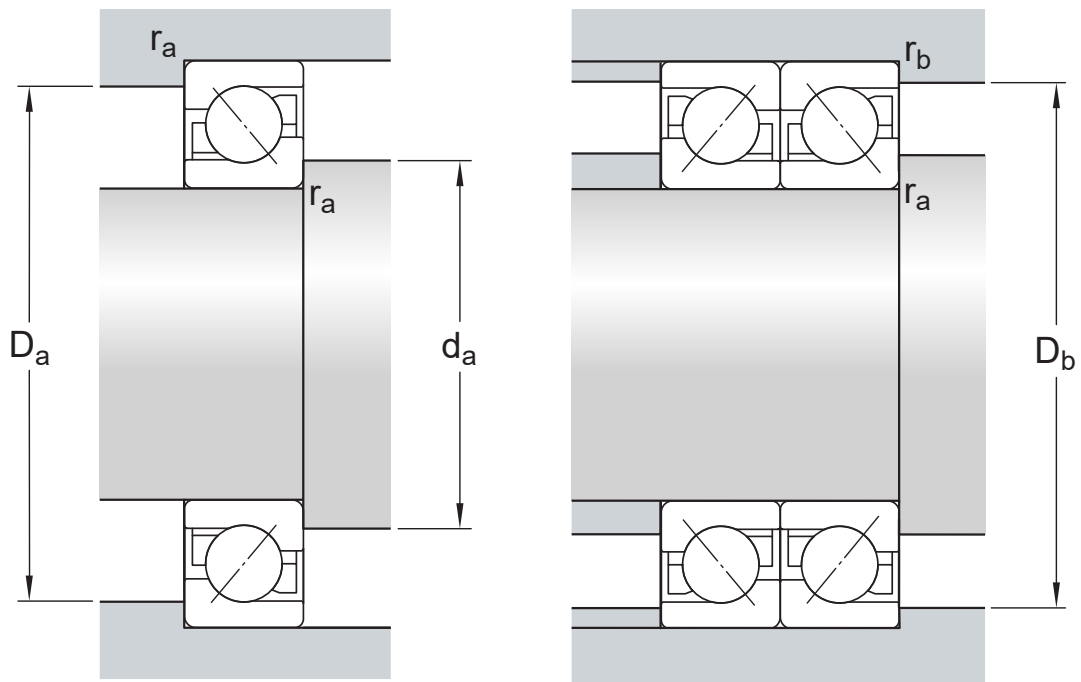


Technical specification



Dimensions

d	1.378 in	Bore diameter
D	3.15 in	Outside diameter
B	0.827 in	Width
d <sub>1</sub>	≈ 2.067 in	Shoulder diameter of inner ring (large side face)
d <sub>2</sub>	≈ 1.717 in	Shoulder diameter of inner ring (small side face)
D <sub>1</sub>	≈ 2.492 in	Shoulder diameter of outer ring (large side face)
a	1.378 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. 1.732 in	Diameter of shaft abutment
$D_a$	max. 2.795 in	Abutment diameter housing
$D_b$	max. 2.929 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	9 330 lbf
Basic static load rating	$C_0$	5 957 lbf
Fatigue load limit	$P_u$	256 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

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



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