



# 7306 BEGBY

## 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	1.181 in
Outside diameter	2.835 in
Width	0.748 in

### Performance

Basic dynamic load rating	7 981 lbf
Basic static load rating	4 766 lbf
Limiting speed	13 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

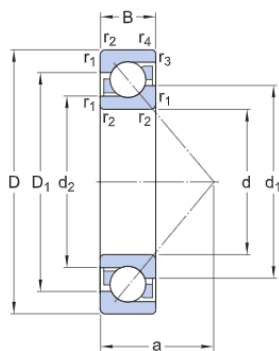
### Properties

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

# Technical Specification

SKF performance class

SKF Explorer

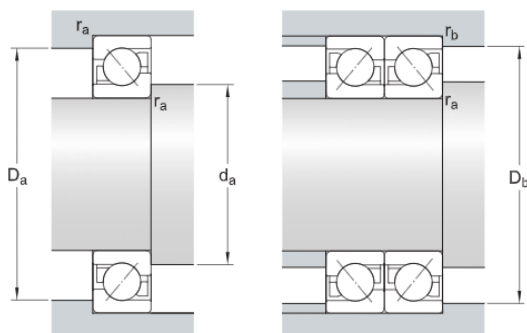


## Dimensions

d	1.181 in	Bore diameter
D	2.835 in	Outside diameter
B	0.748 in	Width
d <sub>1</sub>	≈ 1.831 in	Shoulder diameter of inner ring (large side face)
d <sub>2</sub>	≈ 1.492 in	Shoulder diameter of inner ring (small side face)
D <sub>1</sub>	≈ 2.222 in	Shoulder diameter of outer ring (large side face)
a	1.22 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 <sub>a</sub>	min. 1.457 in	Diameter of shaft abutment
D <sub>a</sub>	max. 2.559 in	Abutment diameter housing
D <sub>b</sub>	max. 2.669 in	Diameter of housing abutment
r <sub>a</sub>	max. 0.039 in	Radius of fillet
r <sub>b</sub>	max. 0.024 in	Radius of fillet



## Calculation data

Basic dynamic load rating	C	7 981 lbf
Basic static load rating	C <sub>0</sub>	4 766 lbf
Fatigue load limit	P <sub>u</sub>	202 lbf
Reference speed		13 000 r/min
Limiting speed		13 000 r/min
Minimum axial load factor	A	0.00814
Minimum radial load factor	k <sub>r</sub>	0.1
Limiting value	e	1.14

Single bearing or bearing pair arranged in tandem

Calculation factor (single, tandem)	X	0.35
Calculation factor (single, tandem)	Y <sub>0</sub>	0.26
Calculation factor (single, tandem)	Y <sub>2</sub>	0.57

Bearing pair arranged back-to-back or face-to-face

Calculation factor (back-to-back, face-to-face)	X	0.57
Calculation factor (back-to-back, face-to-face)	Y <sub>0</sub>	0.52
Calculation factor (back-to-back, face-to-face)	Y <sub>1</sub>	0.55
Calculation factor (back-to-back, face-to-face)	Y <sub>2</sub>	0.93

Mass

Mass	0.75 lb
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