



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

## 3307 DJ1

### Double row angular contact ball bearing with two-piece inner ring

Double row angular contact ball bearings, with two-piece inner ring, correspond to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space than the equivalent pair of single row angular contact ball bearings. The two-

piece inner ring enables incorporation of a larger number of balls, with a larger contact angle, providing a high load carrying capacity, especially in the axial direction.

- Accommodate very high axial loads in both directions, radial loads, and tilting moments
- Suitable where a stiff bearing arrangement is required
- Separable design means outer ring with ball and cage assemblies can be mounted independently of the inner ring halves

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	34.9 mm
Contact angle	45 °

Performance

Basic dynamic load rating	52.7 kN
Basic static load rating	41.5 kN
Reference speed	9 000 r/min
Limiting speed	8 000 r/min

Properties

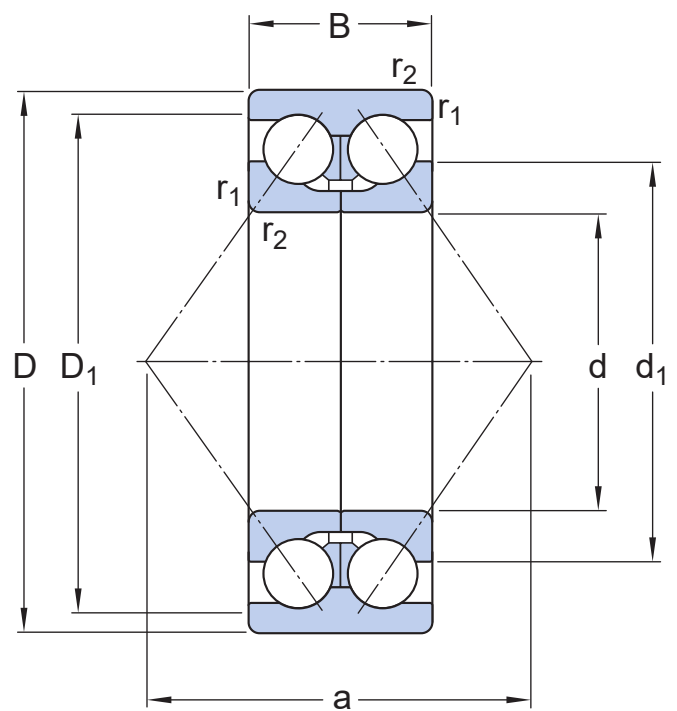
Contact type	Normal contact (two-point contact)
Number of rows	2
Locating feature, bearing outer ring	None
Ring type	Two-piece inner ring and one-piece outer ring
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Back-to-back (O)
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

Product net weight	0.831 kg
eClass code	23-05-08-03
UNSPSC code	31171531

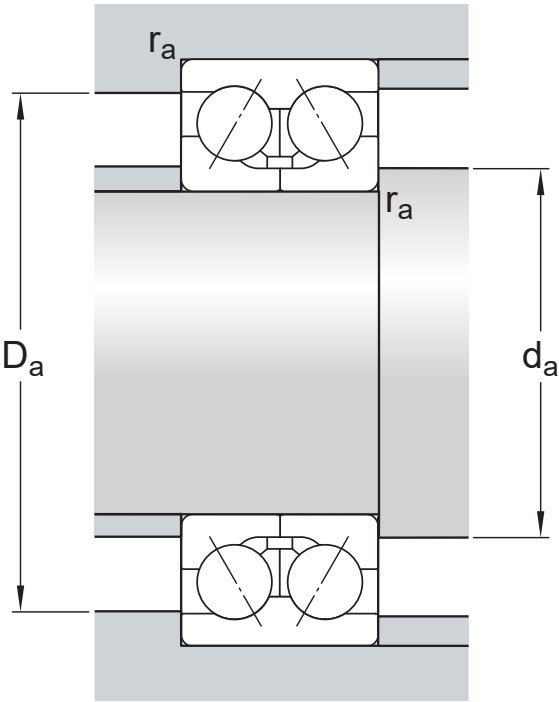


Technical specification



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	34.9 mm	Width
d <sub>1</sub>	≈ 52.8 mm	Shoulder diameter inner ring for two-piece inner ring
D <sub>1</sub>	≈ 69 mm	Shoulder diameter outer ring
r <sub>1,2</sub>	min. 1.5 mm	Chamfer dimension inner ring for two-piece inner ring
a	76 mm	Distance pressure point(s)



Abutment dimensions

$d_a$	min. 44 mm	Abutment diameter shaft
$D_a$	max. 71 mm	Abutment diameter housing
$r_a$	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	52.7 kN
Basic static load rating	$C_0$	41.5 kN
Fatigue load limit	$P_u$	1.76 kN
Reference speed		9 000 r/min
Limiting speed		8 000 r/min
Calculation factor	$k_r$	0.095
Limiting value	e	1.34
Calculation factor	X	0.54
Calculation factor	$Y_0$	0.44
Calculation factor	$Y_1$	0.47
Calculation factor	$Y_2$	0.81

## Tolerances and clearances

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### GENERAL BEARING SPECIFICATIONS




- Tolerances: [Normal](#), [P6](#), [P5](#)
- Internal clearance: [table](#), [drawing no](#)

## BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fit](#)



More Information

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