

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

## 7306 BE-2RZP

**Single row angular contact ball bearing with 40° contact angle and non-contact seals on both sides**

These single row angular contact ball bearings, with 40° contact angle and non-contact seals on both sides, accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They have a ball-centred glass-fibre reinforced PA66 cage. They are more suitable than deep groove ball bearings for supporting large axial forces acting in one direction.

- 40° contact angle
- Integral sealing prolongs bearing service life
- Glass-fibre reinforced PA66 cage
- Accommodate relatively high radial loads and large unilateral axial loads

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm
Contact angle	40 °

Performance

Basic dynamic load rating	32.5 kN
Basic static load rating	19.3 kN
Reference speed	12 000 r/min
Limiting speed	9 500 r/min

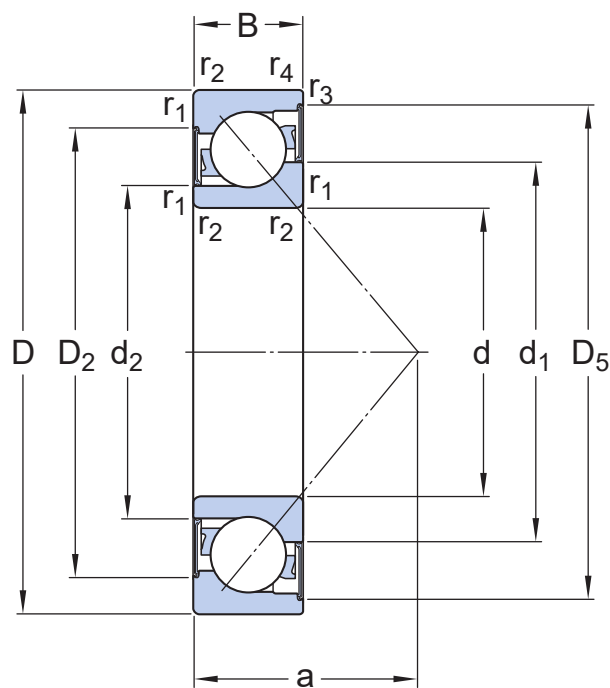
Properties

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	No
Axial internal clearance	Not applicable
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without

Logistics

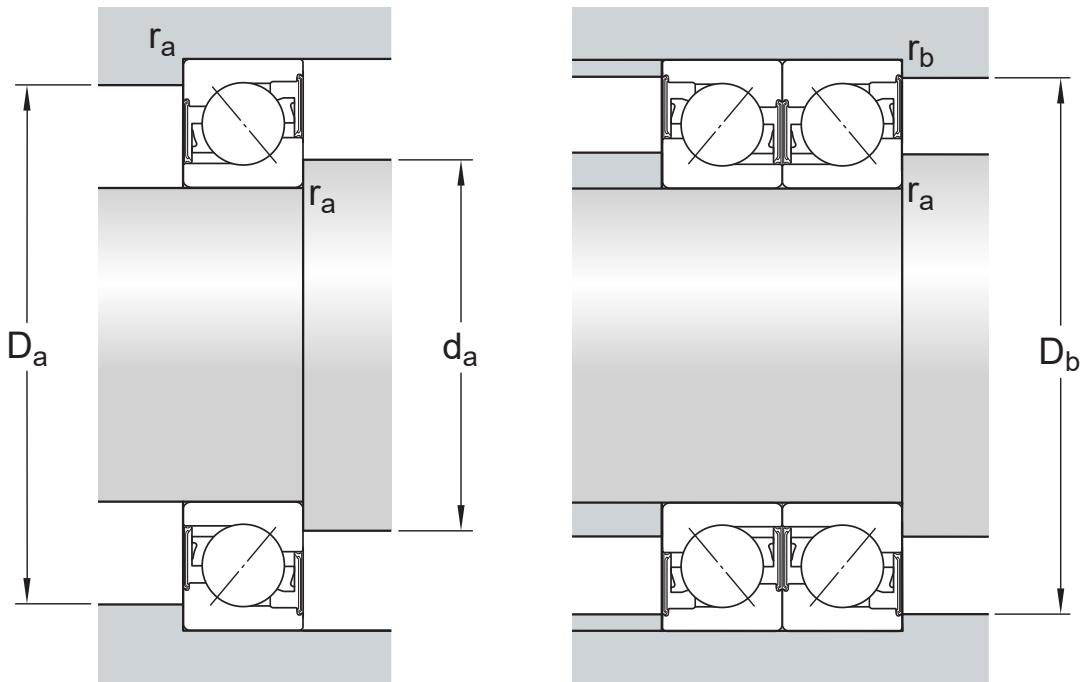
Product net weight	0.34 kg
eClass code	23-05-08-03
UNSPSC code	31171531

Technical specification



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
d <sub>1</sub>	≈ 46.5 mm	Shoulder diameter of inner ring (large side face)
d <sub>2</sub>	≈ 37.9 mm	Shoulder diameter of inner ring (small side face)
D <sub>2</sub>	≈ 58.75 mm	Recess diameter of outer ring (large side face)
D <sub>5</sub>	≈ 66.45 mm	Recess diameter of outer ring (small side face)
a	31 mm	Distance side face to pressure point
r <sub>1,2</sub>	min. 1.1 mm	Chamfer dimension
r <sub>3,4</sub>	min. 0.6 mm	Chamfer dimension



Abutment dimensions

$d_a$	min. 37 mm	Diameter of shaft abutment
$d_a$	max. 46 mm	Diameter of shaft abutment
$D_a$	max. 65 mm	Abutment diameter housing
$D_b$	max. 67.8 mm	Diameter of housing abutment
$r_a$	max. 1 mm	Radius of fillet
$r_b$	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	32.5 kN
Basic static load rating	$C_0$	19.3 kN
Fatigue load limit	$P_u$	0.815 kN
Reference speed		12 000 r/min
Limiting speed		9 500 r/min
Minimum axial load factor	A	0.0074
Minimum radial load factor	$k_r$	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

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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