



# 7201 BECBP

## 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	12 mm
Contact angle	40 °
Outside diameter	32 mm
Width	10 mm

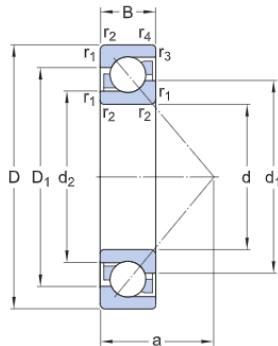
### Performance

Basic dynamic load rating	7.61 kN
Basic static load rating	3.8 kN
Limiting speed	26 000 r/min
Reference speed	28 000 r/min

## Properties

Axial internal clearance	Not applicable
Cage	Non-metallic
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

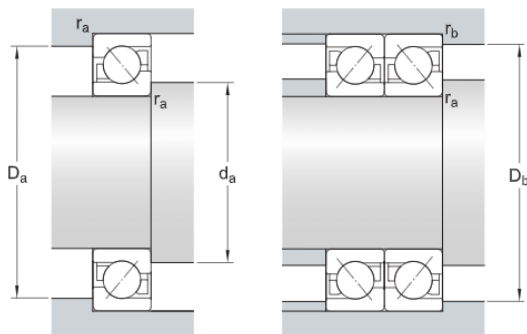


## Dimensions

d	12 mm	Bore diameter
D	32 mm	Outside diameter
B	10 mm	Width
d <sub>1</sub>	≈ 20.2 mm	Shoulder diameter of inner ring (large side face)
d <sub>2</sub>	≈ 16.57 mm	Shoulder diameter of inner ring (small side face)
D <sub>1</sub>	≈ 25 mm	Shoulder diameter of outer ring (large side face)
a	14 mm	Distance side face to pressure point
r <sub>1,2</sub>	min. 0.6 mm	Chamfer dimension
r <sub>3,4</sub>	min. 0.3 mm	Chamfer dimension

## Abutment dimensions

d <sub>a</sub>	min. 16.2 mm	Diameter of shaft abutment
D <sub>a</sub>	max. 27.8 mm	Abutment diameter housing
D <sub>b</sub>	max. 30 mm	Diameter of housing abutment
r <sub>a</sub>	max. 0.6 mm	Radius of fillet
r <sub>b</sub>	max. 0.3 mm	Radius of fillet



## Calculation data

Basic dynamic load rating	C	7.61 kN
Basic static load rating	C <sub>0</sub>	3.8 kN
Fatigue load limit	P <sub>u</sub>	0.16 kN
Reference speed		28 000 r/min

Limiting speed		26 000 r/min
Minimum axial load factor	A	0.000283
Minimum radial load factor	$k_r$	0.095
Limiting value	e	1.14

#### Single bearing or bearing pair arranged in tandem

Calculation factor (single, tandem)	X	0.35
Calculation factor (single, tandem)	$Y_0$	0.26
Calculation factor (single, tandem)	$Y_2$	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)	$Y_0$	0.52
Calculation factor (back-to-back, face-to-face)	$Y_1$	0.55
Calculation factor (back-to-back, face-to-face)	$Y_2$	0.93

#### Mass

Mass	0.036 kg
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