



## 7309 BECBP

- Popular item  
- SKF Explorer

### Angular contact ball bearings, single row

#### Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Internal clearance,](#)

CA+CB+CC, G,

[Preload,](#)

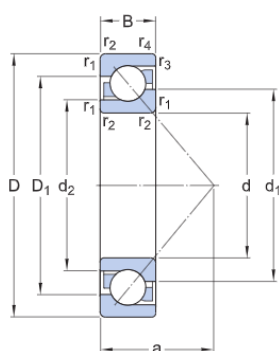
GA+GB+GC

#### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

## Technical specification

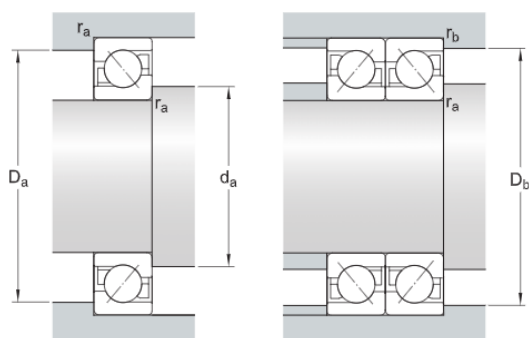


### DIMENSIONS

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d <sub>1</sub>	≈ 66.5 mm	Shoulder diameter of inner ring (large side face)
d <sub>2</sub>	≈ 55.25 mm	Shoulder diameter of inner ring (small side face)
D <sub>1</sub>	≈ 79.9 mm	Shoulder diameter of outer ring (large side face)
a	43 mm	Distance side face to pressure point
r <sub>1</sub> , min.	1.5 mm	Chamfer dimension
r <sub>3</sub> , min.	1 mm	Chamfer dimension

### ABUTMENT DIMENSIONS

d <sub>c</sub> min.	54 mm	Diameter of shaft abutment
D <sub>i</sub> max.	91 mm	Abutment diameter housing
D <sub>i</sub> max.	94.4 mm	Diameter of housing abutment
r <sub>a</sub> max.	1.5 mm	Radius of fillet
r <sub>b</sub> max.	1 mm	Radius of fillet



## CALCULATION DATA

Basic dynamic load rating	C	61 kN
Basic static load rating	C <sub>0</sub>	40.5 kN
Fatigue load limit	P <sub>u</sub>	1.73 kN
Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum axial load factor	A	0.027
Minimum radial load factor	k <sub>r</sub>	0.1
Limiting value	e	1.14

## SINGLE BEARING OR BEARING PAIR ARRANGED IN TANDEM

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

## BEARING PAIR ARRANGED BACK-TO-BACK OR FACE-TO-FACE

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

## MASS

Mass	0.82 kg
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## More information

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