



## 7307 BECBM

- 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](#),

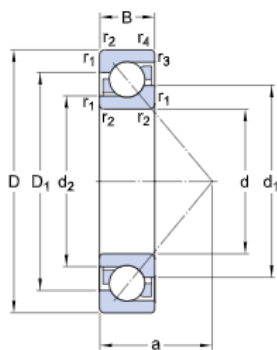
GA+GB+GC

#### Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fit](#)

## Technical specification



### DIMENSIONS

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d1	≈52.5 mm	Shoulder diameter inner ring (large side face)
d2	≈43.62 mm	Shoulder diameter inner ring (small side face)
D1	≈63.45 mm	Shoulder diameter outer ring (large side face)
a	35 mm	Distance pressure point
r1,2	min.1.5 mm	Chamfer dimension
r3,4	min.1 mm	Chamfer dimension outer ring small side face

### ABUTMENT DIMENSIONS

da	min.44 mm	Abutment diameter shaft
Da	max.71 mm	Abutment diameter housing
Db	max.74.4 mm	Abutment diameter housing
	max.1.5	Fillet



ra	mm	radius
rb	max.1 mm	Fillet radius

CALCULATION DATA

Basic dynamic load rating	C	41.5 kN
Basic static load rating	C <sub>0</sub>	26.5 kN
Fatigue load limit	P <sub>u</sub>	1.14 kN
Reference speed		11 000 r/min
Limiting speed		14 000 r/min
Calculation factor	A	0.011
Calculation factor	k <sub>r</sub>	0.1
Calculation factor	e	1.14

SINGLE BEARING OR BEARING PAIR ARRANGED IN TANDEM

Calculation factor	X	0.35
Calculation factor	Y <sub>0</sub>	0.26
Calculation factor	Y <sub>2</sub>	0.57

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

Calculation factor	X	0.57
Calculation factor	Y <sub>0</sub>	0.52
Calculation factor	Y <sub>1</sub>	0.55
Calculation factor	Y <sub>2</sub>	0.93

## MASS

Mass bearing

0.45 kg

## More information

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

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