

## 7209 BE-2RZP

Popular item

### Angular contact ball bearings, single row

#### Bearing data

[Tolerances](#),

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

[Internal clearance](#),

CA+CB+CC, G,

[Preload](#),

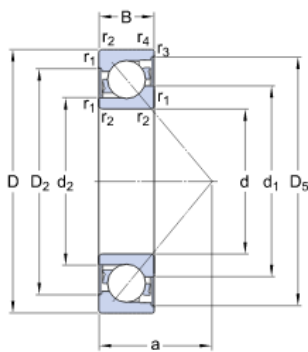
GA+GB+GC

#### Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fit](#)

### Technical specification

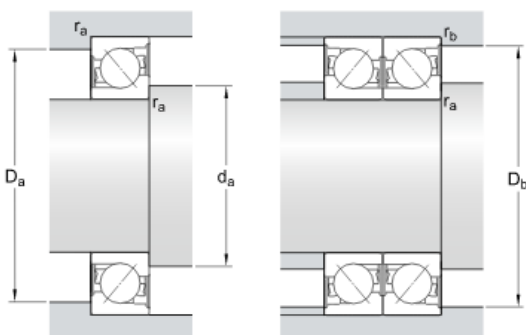


#### DIMENSIONS

d	45 mm
D	85 mm
B	19 mm
d <sub>1</sub>	≈ 60.85 mm
d <sub>2</sub>	≈ 52.68 mm
D <sub>2</sub>	≈ 71.8 mm
D <sub>5</sub>	≈ 77.9 mm
a	37 mm
r <sub>1,2</sub>	min. 1.1 mm
r <sub>3,4</sub>	min. 0.6 mm

#### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 52 mm
d <sub>a</sub>	max. 60 mm
D <sub>a</sub>	max. 78 mm
D <sub>b</sub>	max. 80.8 mm
r <sub>a</sub>	max. 1 mm
r <sub>b</sub>	max. 0.6 mm



## CALCULATION DATA

Basic dynamic load rating	C	35.8 kN
Basic static load rating	$C_0$	26 kN
Fatigue load limit	$P_u$	1.12 kN
Reference speed		9500 r/min
Limiting speed		7500 r/min
Calculation factor	A	0.012
Calculation factor	$k_r$	0.095
Calculation factor	e	1.14

## SINGLE BEARING OR BEARING PAIR ARRANGED IN TANDEM

Calculation factor	X	0.35
Calculation factor	$Y_0$	0.26
Calculation factor	$Y_2$	0.57

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

Calculation factor	X	0.57
Calculation factor	$Y_0$	0.52
Calculation factor	$Y_1$	0.55
Calculation factor	$Y_2$	0.93

## MASS

Mass bearing	0.52 kg
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## 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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