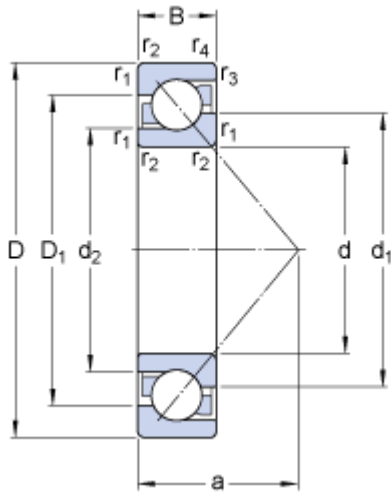


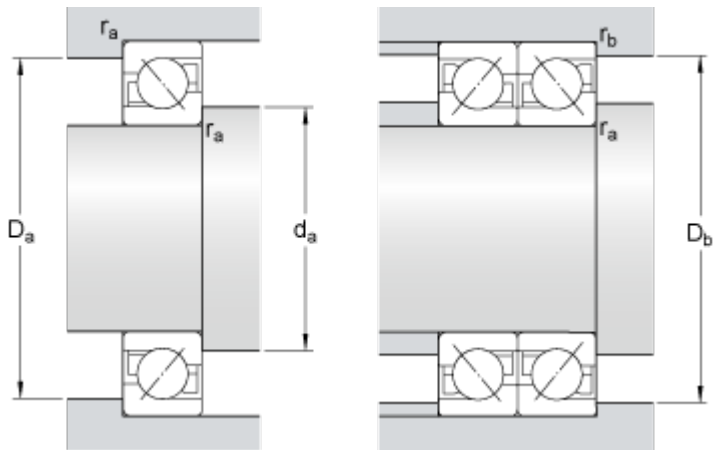
# 7209 BEP

## 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>1</sub>	≈	70.15	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.	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

### Bearing pair arranged back-to-back or face-to-face

Basic dynamic load rating	C	35.8	kN
Basic static load rating	C <sub>0</sub>	26	kN
Fatigue load limit	P <sub>u</sub>	1.1	kN
Reference speed		9000	r/min
Limiting speed		9000	r/min
Calculation factor	k <sub>r</sub>	0.095	
Calculation factor	k <sub>a</sub>	1.4	
Calculation factor	e	1.14	
Calculation factor	X	0.57	

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

**Single bearing or bearing pair arranged in tandem**

Calculation factor	X	0.35
Calculation factor	$Y_0$	0.26
Calculation factor	$Y_1$	0
Calculation factor	$Y_2$	0.57

**Mass**

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Mass bearing	0.42	kg
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