



# 7202 BEP

Popular item

## Angular contact ball bearings, single row

### Bearing data

[Tolerances,](#)

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

[Internal clearance,](#)

CA+CB+CC, G,

[Preload,](#)

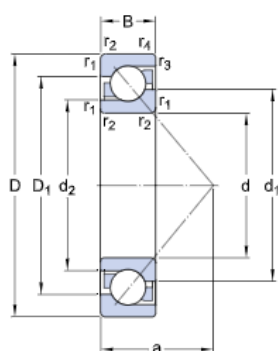
GA+GB+GC

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

## Technical specification

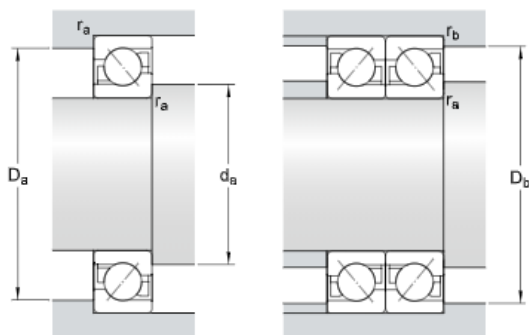


### DIMENSIONS

d	15 mm
D	35 mm
B	11 mm
d <sub>1</sub>	≈ 22.7 mm
d <sub>2</sub>	≈ 18.93 mm
D <sub>1</sub>	≈ 27.8 mm
a	16 mm
r <sub>1,2</sub>	min. 0.6 mm
r <sub>3,4</sub>	min. 0.3 mm

### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 19.2 mm
D <sub>a</sub>	max. 30.8 mm
D <sub>b</sub>	max. 32.6 mm
r <sub>a</sub>	max. 0.6 mm
r <sub>b</sub>	max. 0.3 mm



## CALCULATION DATA

Basic dynamic load rating	C	8.32 kN
Basic static load rating	$C_0$	4.4 kN
Fatigue load limit	$P_u$	0.183 kN
Reference speed		24000 r/min
Limiting speed		24000 r/min
Calculation factor	A	0.000383
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	0.045 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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