



## 7414 BCBM

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	70 mm
D	180 mm
B	42 mm
d <sub>1</sub>	≈ 111.76 mm
d <sub>2</sub>	≈ 91.03 mm
D <sub>1</sub>	≈ 140.45 mm
a	74 mm
r <sub>1,2</sub>	min. 3 mm
r <sub>3,4</sub>	min. 3 mm

#### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 84 mm
D <sub>a</sub>	max. 188 mm
D <sub>b</sub>	max. 144.5 mm
r <sub>a</sub>	max. 2 mm
r <sub>b</sub>	max. 2 mm



## CALCULATION DATA

Basic dynamic load rating	C	159 kN
Basic static load rating	$C_0$	127 kN
Fatigue load limit	$P_u$	4.8 kN
Reference speed		4800 r/min
Limiting speed		6300 r/min
Calculation factor	A	0.31
Calculation factor	$k_r$	0.1
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	5.8 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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