

# 7224 BM

Popular item

# Angular contact ball bearings, single row

Bearing data

Tolerances,

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

Internal clearance,

CA+CB+CC, G,

Preload,

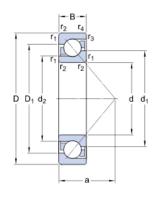
GA+GB+GC

#### Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

# Technical specification

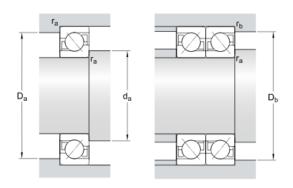


### **DIMENSIONS**

d	120 mm
D	215 mm
В	40 mm
$d_1$	≈ 157 mm
$d_2$	≈ 138.6 mm
$D_1$	≈ 179.4 mm
a	90 mm
r <sub>1,2</sub>	min. 2.1 mm
r <sub>3,4</sub>	min. 1.1 mm

### ABUTMENT DIMENSIONS

$d_a$	min. 132 mm
$D_a$	max. 203 mm
$D_b$	max. 208 mm
r <sub>a</sub>	max. 2 mm
$r_b$	max. 1 mm





### CALCULATION DATA

Basic dynamic load rating	С	165 kN
Basic static load rating	$C_0$	163 kN
Fatigue load limit	$P_{u}$	5.3 kN
Reference speed		3600 r/min
Limiting speed		4000 r/min
Calculation factor	А	0.45
Calculation factor	k <sub>r</sub>	0.08
Calculation factor	е	1.14

### SINGLE BEARING OR BEARING PAIR ARRANGED IN TANDEM

Calculation factor	Χ	0.35
Calculation factor	$Y_0$	0.26
Calculation factor	Y <sub>2</sub>	0.57

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

Calculation factor	Χ	0.57
Calculation factor	Y <sub>0</sub>	0.52
Calculation factor	$Y_1$	0.55
Calculation factor	Y <sub>2</sub>	0.93

### MASS

Mass bearing 5.8	9 kg
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## More information

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

prevent it





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