

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,

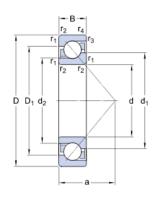
GA+GB+GC

Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

Technical specification

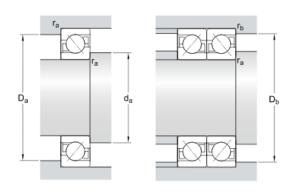


DIMENSIONS

d	70 mm
D	180 mm
В	42 mm
d_1	≈ 111.76 mm
d_2	≈ 91.03 mm
D_1	≈ 140.45 mm
a	74 mm
r _{1,2}	min. 3 mm
r _{3,4}	min. 3 mm

ABUTMENT DIMENSIONS

d_a	min. 84 mm
D_a	max. 188 mm
D_b	max. 144.5 mm
r _a	max. 2 mm
r_b	max. 2 mm





CALCULATION DATA

Basic dynamic load rating	С	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	А	0.31
Calculation factor	k _r	0.1
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 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



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 standard conditions Selecting internal clearance or preload	Heater selection tool
Design considerations		Rolling bearings mounting
Designation system		and dismounting instructions
	Lubrication	
	Sealing, mounting and dismounting	
	Bearing failure and how to	

prevent it





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