



7311 BECBP

- Popular item
- SKF Explorer

Angular contact ball bearings, single row

Bearing data

[Tolerances,](#)

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

[Internal clearance,](#)

CA+CB+CC, G,

[Preload,](#)

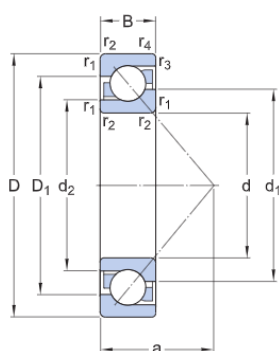
GA+GB+GC

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

Technical specification

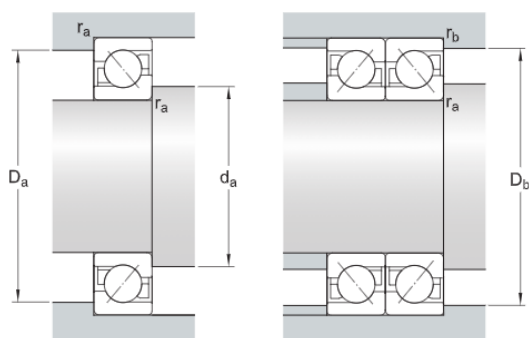


DIMENSIONS

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
d1	≈80.3 mm	Shoulder diameter inner ring (large side face)
d2	≈66.66 mm	Shoulder diameter inner ring (small side face)
D1	≈96.6 mm	Shoulder diameter outer ring (large side face)
a	51 mm	Distance pressure point
r1,2	min.2 mm	Chamfer dimension
r3,4	min.1 mm	Chamfer dimension outer ring small side face

ABUTMENT DIMENSIONS

da	min.66 mm	Abutment diameter shaft
Da	max.109 mm	Abutment diameter housing
Db	max.114 mm	Abutment diameter housing
	max.2	Fillet



ra	mm	radius
rb	max.1 mm	Fillet radius

CALCULATION DATA

Basic dynamic load rating	C	85 kN
Basic static load rating	C ₀	60 kN
Fatigue load limit	P _u	2.55 kN
Reference speed		7 000 r/min
Limiting speed		7 000 r/min
Calculation factor	A	0.057
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

1.4 kg

More information

Product details

[Designs and variants](#)[Bearing data](#)[Loads](#)[Temperature limits](#)[Permissible speed](#)[Design considerations](#)[Designation system](#)

Engineering information

[Principles of rolling bearing selection](#)[General bearing knowledge](#)[Bearing selection process](#)[Bearing interfaces](#)[Seat tolerances for standard conditions](#)[Selecting internal clearance or preload](#)[Lubrication](#)[Sealing, mounting and dismounting](#)[Bearing failure and how to prevent it](#)

Tools

[Bearing Select](#)[SimPro Quick](#)[Engineering Calculator](#)[LubeSelect for SKF greases](#)[Heater selection tool](#)[Rolling bearings mounting and dismounting instructions](#)

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