



3316 A

- Popular item
- SKF Explorer

Angular contact ball bearings, double row

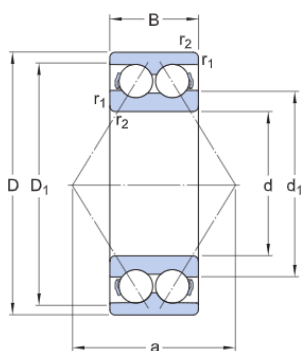
Bearing data

[Tolerances](#),
Normal, P6, P5,
[Internal clearance](#),
table, drawing no

Bearing interfaces

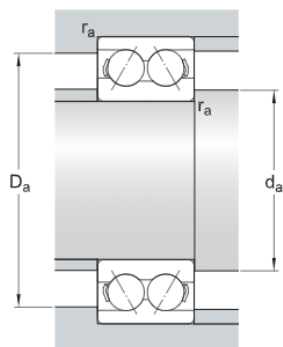
[Seat tolerances for standard conditions](#),
[Tolerances and resultant fit](#)

Technical specification



DIMENSIONS

d	80 mm	Bore diameter
D	170 mm	Outside diameter
B	68.3 mm	Width
d ₁	≈ 109 mm	Shoulder diameter inner ring
D ₁	≈ 143.3 mm	Shoulder diameter outer ring
r _{1,2}	min. 2.1 mm	Chamfer dimension inner ring
a	101 mm	Distance pressure point(s)



ABUTMENT DIMENSIONS

d _a	min. 92 mm	Abutment diameter shaft
D _i	max. 158 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

CALCULATION DATA

Basic dynamic load rating	C	193 kN
Basic static load rating	C ₀	156 kN
Fatigue load limit	P _u	6 kN
Reference speed		4 300 r/min
Limiting speed		3 800 r/min
Calculation factor	k _r	0.07
Calculation factor	e	0.8
Calculation factor	X	0.63
Calculation factor	Y ₀	0.66
Calculation factor	Y ₁	0.78
Calculation factor	Y ₂	1.24

MASS

Mass bearing		6.8 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 standard conditions	Heater selection tool
Designation system	Selecting internal clearance or preload	Rolling bearings mounting and dismounting instructions
	Lubrication	
	Sealing, mounting and dismounting	
	Bearing failure and how to prevent it	

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