



3309 A-2Z

- SKF Explorer

Angular contact ball bearings, double row

Bearing data

[Tolerances](#),

Normal, P6, P5,

[Internal clearance](#),

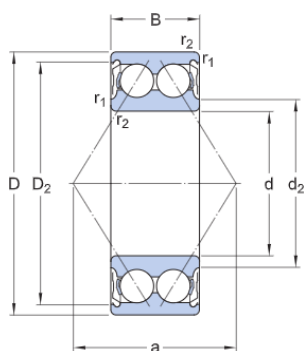
table, drawing no

Bearing interfaces

[Seat tolerances for standard conditions](#),

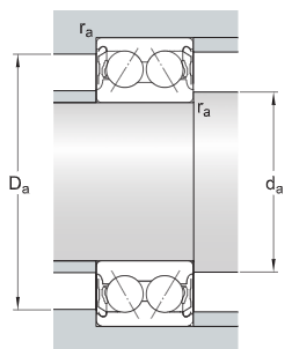
[Tolerances and resultant fit](#)

Technical specification



DIMENSIONS

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	39.7 mm	Width
d ₂	≈ 55.6 mm	Recess diameter inner ring shoulder
D ₂	≈ 89.95 mm	Recess diameter outer ring shoulder
r _{1,2}	min. 1.5 mm	Chamfer dimension inner ring
a	58 mm	Distance pressure point(s)



ABUTMENT DIMENSIONS

d _a	min. 54 mm	Abutment diameter shaft
d _a	max. 91 mm	Abutment diameter shaft
D _c	max. 91 mm	Abutment diameter housing
r _a	max. 1.5 mm	Fillet radius

CALCULATION DATA

Basic dynamic load rating	C	75 kN
Basic static load rating	C ₀	53 kN
Fatigue load limit	P _u	2.24 kN
Reference speed		7 500 r/min
Limiting speed		6 700 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	1.25 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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