



## 3309 ATN9

- Popular item  
- SKF Explorer

### Angular contact ball bearings, double row

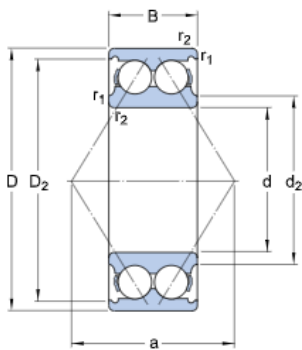
#### Bearing data

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

#### Bearing interfaces

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

### Technical specification

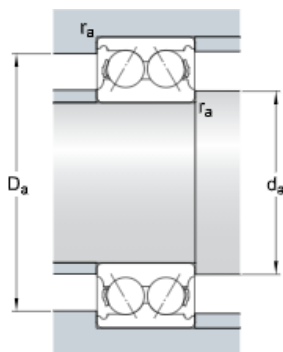


#### DIMENSIONS

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	39.7 mm	Width
d2	≈55.6 mm	Recess diameter inner ring shoulder
D2	≈89.95 mm	Recess diameter outer ring shoulder
r1,2	min.1.5 mm	Chamfer dimension inner ring
a	58 mm	Distance pressure point(s)

#### ABUTMENT DIMENSIONS

da	min.54 mm	Abutment diameter shaft
Da	max.91 mm	Abutment diameter housing
ra	max.1.5 mm	Fillet radius



## CALCULATION DATA

Basic dynamic load rating	C	75 kN
Basic static load rating	C <sub>0</sub>	53 kN
Fatigue load limit	P <sub>u</sub>	2.24 kN
Reference speed		7 500 r/min
Limiting speed		6 700 r/min
Calculation factor	k <sub>r</sub>	0.07
Calculation factor	e	0.8
Calculation factor	X	0.63
Calculation factor	Y <sub>0</sub>	0.66
Calculation factor	Y <sub>1</sub>	0.78
Calculation factor	Y <sub>2</sub>	1.24

## MASS

Mass bearing	1.25 kg
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## More information

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

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