



## 3203 A-2ZTN9/MT33

- Popular item

### Angular contact ball bearings, double row

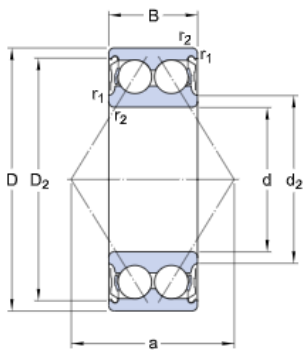
#### Bearing data

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

#### Bearing interfaces

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

### Technical specification

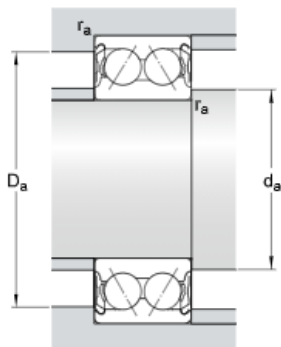


#### DIMENSIONS

d	17 mm	Bore diameter
D	40 mm	Outside diameter
B	17.5 mm	Width
d2	≈23.3 mm	Recess diameter inner ring shoulder
D2	≈34.95 mm	Recess diameter outer ring shoulder
r1,2	min.0.6 mm	Chamfer dimension inner ring
a	23 mm	Distance pressure point(s)

#### ABUTMENT DIMENSIONS

da	min.21.4 mm	Abutment diameter shaft
da	max.23 mm	Abutment diameter shaft
Da	max.35.6 mm	Abutment diameter housing
ra	max.0.6 mm	Fillet radius



## CALCULATION DATA

Basic dynamic load rating	C	14.3 kN
Basic static load rating	C <sub>0</sub>	8.8 kN
Fatigue load limit	P <sub>u</sub>	0.365 kN
Reference speed		19 000 r/min
Limiting speed		16 000 r/min
Calculation factor	k <sub>r</sub>	0.06
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		0.096 kg
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## More information

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

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