



## 3303 A-2ZTN9/MT33

Popular item

### Angular contact ball bearings, double row

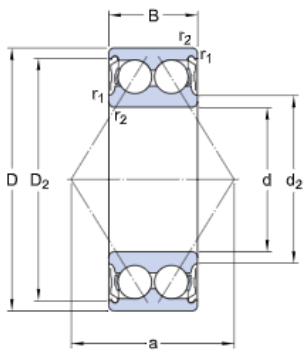
#### Bearing data

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

#### Bearing interfaces

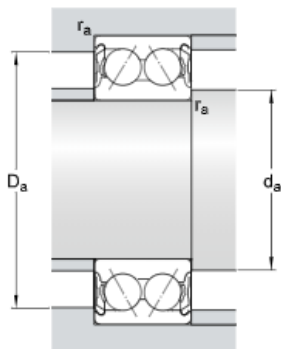
[Seat tolerances for standard conditions](#),  
[Tolerances and resultant fit](#)

### Technical specification



#### DIMENSIONS

d	17 mm
D	47 mm
B	22.2 mm
d <sub>2</sub>	≈ 25.7 mm
D <sub>2</sub>	≈ 40.15 mm
r <sub>1,2</sub>	min. 1 mm
a	28 mm



#### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 22.6 mm
d <sub>a</sub>	max. 25.5 mm
D <sub>a</sub>	max. 41.4 mm
r <sub>a</sub>	max. 1 mm

## CALCULATION DATA

Basic dynamic load rating	C	21.6 kN
Basic static load rating	$C_0$	12.7 kN
Fatigue load limit	$P_u$	0.54 kN
Reference speed		17000 r/min
Limiting speed		14000 r/min
Calculation factor	$k_f$	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	0.18 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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