



## RLS 5-2Z

### Deep groove ball bearings

#### Bearing data

[Tolerances](#),

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance](#),

Matched bearing pairs, Stainless steel  
d < 10 mm, Other bearings

#### Bearing interfaces

[Seat tolerances for standard conditions](#),

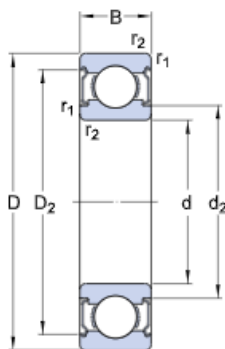
[Tolerances and resultant fits](#)

## Technical specification

Aftermarket only

Yes

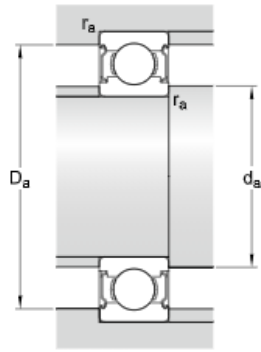
### DIMENSIONS



d	15.875 mm	Bore diameter
D	39.688 mm	Outside diameter
B	11.112 mm	Width
d2	≈21.5 mm	Recess diameter
D2	≈34.98 mm	Recess diameter
r1,2	min.0.8 mm	Chamfer dimension

### ABUTMENT DIMENSIONS

da	min.20 mm	Diameter of shaft abutment
da	max.24.3 mm	Diameter of shaft abutment
Da	max.35 mm	Diameter of housing abutment
	max.0.8	Radius of shaft



$r_a$  mm

or housing fillet

## CALCULATION DATA

Basic dynamic load rating	$C$	9.56 kN
Basic static load rating	$C_0$	4.75 kN
Fatigue load limit	$P_u$	0.2 kN
Reference speed		34 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	$k_T$	0.025
Calculation factor	$f_0$	13.1

## MASS

Mass bearing	0.069 kg
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## TOLERANCE CLASS

Dimensional tolerances	Normal
Radial run-out	Normal

More information

Product details	Product details	Engineering information	Engineering information	Tools	Tools
<a href="#">Single row deep groove ball bearings Stainless steel deep groove ball bearings Single row deep groove ball bearings with filling slots Double row deep groove ball bearings Bearing data</a>	<a href="#">Single row deep groove ball bearings Stainless steel deep groove ball bearings Single row deep groove ball bearings with filling slots Double row deep groove ball bearings Bearing data</a>	<a href="#">Principles of rolling bearing selection General bearing knowledge</a>	<a href="#">Principles of rolling bearing selection General bearing knowledge</a>	<a href="#">Bearing Select</a>	<a href="#">Bearing Select</a>
		<a href="#">Bearing selection process</a>	<a href="#">Bearing selection process</a>	<a href="#">SimPro Quick</a>	<a href="#">SimPro Quick</a>
		<a href="#">Bearing interfaces</a>	<a href="#">Bearing interfaces</a>	<a href="#">Engineering Calculator</a>	<a href="#">Engineering Calculator</a>
		<a href="#">Seat tolerances for standard condition</a>	<a href="#">Seat tolerances for standard condition</a>	<a href="#">LubeSelect for SKF greases</a>	<a href="#">LubeSelect for SKF greases</a>
		<a href="#">Selecting internal clearance</a>	<a href="#">Selecting internal clearance</a>	<a href="#">Heater selection tool</a>	<a href="#">Heater selection tool</a>
		<a href="#">Lubrication</a>	<a href="#">Lubrication</a>	<a href="#">Rolling bearings mounting and dismounting instructions</a>	<a href="#">Rolling bearings mounting and dismounting instructions</a>
		<a href="#">Sealing, mounting and dismounting</a>	<a href="#">Sealing, mounting and dismounting</a>		
		<a href="#">Bearing failure and how to prevent it</a>	<a href="#">Bearing failure and how to prevent it</a>		
<a href="#">Loads</a>	<a href="#">Loads</a>				
<a href="#">Temperature limits</a>	<a href="#">Temperature limits</a>				
<a href="#">Permissible speed</a>	<a href="#">Permissible speed</a>				
<a href="#">Designation system</a>	<a href="#">Designation system</a>				

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