

RLS 10-2Z

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](#),

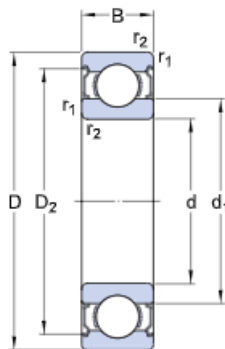
[Tolerances and resultant fits](#)

Technical specification

Aftermarket only

Yes

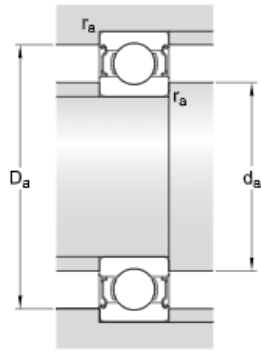
DIMENSIONS



d	31.75 mm	Bore diameter
D	69.85 mm	Outside diameter
B	17.462 mm	Width
d1	≈42.3 mm	Shoulder diameter
D2	≈57.1 mm	Recess diameter
r1,2	min.1.6 mm	Chamfer dimension

ABUTMENT DIMENSIONS

da	min.39 mm	Diameter of shaft abutment
da	max.42.1 mm	Diameter of shaft abutment
Da	max.62 mm	Diameter of housing abutment
	max.1.5	Radius of shaft



r_a mm

or housing fillet

CALCULATION DATA

Basic dynamic load rating	C	22.5 kN
Basic static load rating	C_0	13.2 kN
Fatigue load limit	P_u	0.55 kN
Reference speed		20 000 r/min
Limiting speed		10 000 r/min
Minimum load factor	k_T	0.025
Calculation factor	f_0	14

MASS

Mass bearing	0.31 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
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	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	Principles of rolling bearing selection General bearing knowledge	Principles of rolling bearing selection General bearing knowledge	Bearing Select	Bearing Select
		Bearing selection process	Bearing selection process	SimPro Quick	SimPro Quick
		Bearing interfaces	Bearing interfaces	Engineering Calculator	Engineering Calculator
		Seat tolerances for standard condition	Seat tolerances for standard condition	LubeSelect for SKF greases	LubeSelect for SKF greases
		Selecting internal clearance	Selecting internal clearance	Heater selection tool	Heater selection tool
		Lubrication	Lubrication	Rolling bearings mounting and dismounting instructions	Rolling bearings mounting and dismounting instructions
		Sealing, mounting and dismounting	Sealing, mounting and dismounting		
		Bearing failure and how to prevent it	Bearing failure and how to prevent it		
Loads	Loads				
Temperature limits	Temperature limits				
Permissible speed	Permissible speed				
Designation system	Designation system				

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