



RMS 10

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

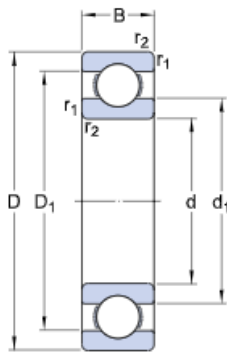
[Seat tolerances for standard conditions](#),

[Tolerances and resultant fits](#)

Technical specification

Aftermarket only

Yes

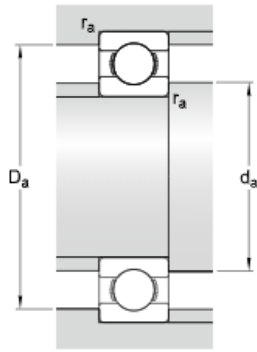


DIMENSIONS

d	1.25 in	Bore diameter
D	3.125 in	Outside diameter
B	0.875 in	Width
d1	≈1.951 in	Shoulder diameter
D1	≈2.573 in	Shoulder diameter
r1,2	min.0.095 in	Chamfer dimension

ABUTMENT DIMENSIONS

da	min.1.732 in	Diameter of shaft abutment
Da	max.2.795 in	Diameter of housing abutment
ra	max.0.059 in	Radius of shaft or housing fillet



CALCULATION DATA

Basic dynamic load rating	C	7 464 lbf
Basic static load rating	C_0	4 271 lbf
Fatigue load limit	P_u	183 lbf
Reference speed		19 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_T	0.03
Calculation factor	f_0	13.1

MASS

Mass bearing	1.11 lbs
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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
Loads	Loads	Bearing selection process	Bearing selection process	SimPro Quick	SimPro Quick
Temperature limits	Temperature limits	Bearing interfaces	Bearing interfaces	Engineering Calculator	Engineering Calculator
Permissible speed	Permissible speed	Seat tolerances for standard condition	Seat tolerances for standard condition	LubeSelect for SKF greases	LubeSelect for SKF greases
Designation system	Designation system	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		

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