



# 6311-2RS1

SKF Explorer

## 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



### DIMENSIONS

d	55 mm
D	120 mm
B	29 mm
d <sub>1</sub>	≈ 75.34 mm
D <sub>2</sub>	≈ 103.7 mm
r <sub>1,2</sub>	min. 2 mm



### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 66 mm
d <sub>a</sub>	max. 75.2 mm
D <sub>a</sub>	max. 109 mm
r <sub>a</sub>	max. 2 mm

## CALCULATION DATA

Basic dynamic load rating	C	74.1 kN
Basic static load rating	C <sub>0</sub>	45 kN
Fatigue load limit	P <sub>u</sub>	1.9 kN
Limiting speed		3 800 r/min
Calculation factor	k <sub>r</sub>	0.03
Calculation factor	f <sub>0</sub>	13.1

## MASS

Mass bearing	1.41 kg
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## More information

<p>Product details</p> <ul style="list-style-type: none"> <li><a href="#">Single row deep groove ball bearings</a></li> <li><a href="#">Stainless steel deep groove ball bearings</a></li> <li><a href="#">Single row deep groove ball bearings with filling slots</a></li> <li><a href="#">Double row deep groove ball bearings</a></li> <li><a href="#">Bearing data</a></li> <li><a href="#">Loads</a></li> <li><a href="#">Temperature limits</a></li> <li><a href="#">Permissible speed</a></li> <li><a href="#">Designation system</a></li> </ul>	<p>Engineering information</p> <ul style="list-style-type: none"> <li><a href="#">Principles of rolling bearing selection</a></li> <li><a href="#">General bearing knowledge</a></li> <li><a href="#">Bearing selection process</a></li> <li><a href="#">Bearing interfaces</a></li> <li><a href="#">Seat tolerances for standard conditions</a></li> <li><a href="#">Selecting internal clearance</a></li> <li><a href="#">Lubrication</a></li> <li><a href="#">Sealing, mounting and dismounting</a></li> <li><a href="#">Bearing failure and how to prevent it</a></li> </ul>	<p>Tools</p> <ul style="list-style-type: none"> <li><a href="#">Bearing Select</a></li> <li><a href="#">SimPro Quick</a></li> <li><a href="#">Engineering Calculator</a></li> <li><a href="#">LubeSelect for SKF greases</a></li> <li><a href="#">Heater selection tool</a></li> <li><a href="#">Rolling bearings mounting and dismounting instructions</a></li> </ul>
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