



# 62311-2RS1

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

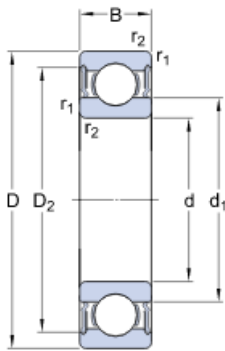
$d < 10$  mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

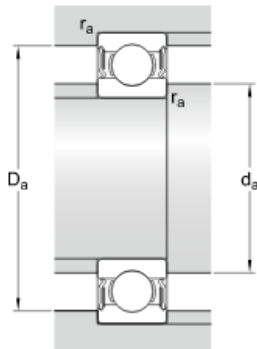
[Tolerances and resultant fits](#)

## Technical specification



### DIMENSIONS

|           |                    |
|-----------|--------------------|
| $d$       | 55 mm              |
| $D$       | 120 mm             |
| $B$       | 43 mm              |
| $d_1$     | $\approx 75.34$ mm |
| $D_2$     | $\approx 103.7$ mm |
| $r_{1,2}$ | min. 2 mm          |



### ABUTMENT DIMENSIONS

|       |              |
|-------|--------------|
| $d_a$ | min. 66 mm   |
| $d_a$ | max. 75.2 mm |
| $D_a$ | max. 109 mm  |
| $r_a$ | max. 2 mm    |

## CALCULATION DATA

|                           |       |            |
|---------------------------|-------|------------|
| Basic dynamic load rating | $C$   | 71.5 kN    |
| Basic static load rating  | $C_0$ | 45 kN      |
| Fatigue load limit        | $P_u$ | 1.9 kN     |
| Limiting speed            |       | 3800 r/min |
| Calculation factor        | $k_r$ | 0.03       |
| Calculation factor        | $f_0$ | 13.1       |

## MASS

|              |  |         |
|--------------|--|---------|
| Mass bearing |  | 2.04 kg |
|--------------|--|---------|

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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