



# 619/9-2Z

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

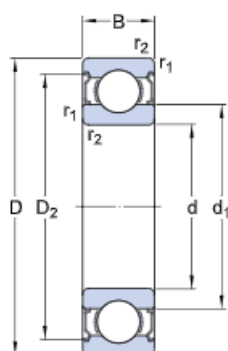
d < 10 mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

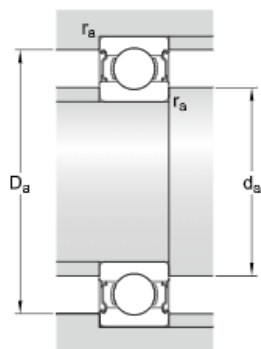
[Tolerances and resultant fits](#)

## Technical specification



### DIMENSIONS

|                  |             |
|------------------|-------------|
| d                | 9 mm        |
| D                | 20 mm       |
| B                | 6 mm        |
| d <sub>1</sub>   | ≈ 11.61 mm  |
| D <sub>2</sub>   | ≈ 17.44 mm  |
| r <sub>1,2</sub> | min. 0.3 mm |



### ABUTMENT DIMENSIONS

|                |              |
|----------------|--------------|
| d <sub>a</sub> | min. 11 mm   |
| d <sub>a</sub> | max. 11.5 mm |
| D <sub>a</sub> | max. 18 mm   |
| r <sub>a</sub> | max. 0.3 mm  |

## CALCULATION DATA

|                           |                |             |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C              | 2.34 kN     |
| Basic static load rating  | C <sub>0</sub> | 0.98 kN     |
| Fatigue load limit        | P <sub>u</sub> | 0.043 kN    |
| Reference speed           |                | 80000 r/min |
| Limiting speed            |                | 40000 r/min |
| Calculation factor        | k <sub>r</sub> | 0.02        |
| Calculation factor        | f <sub>0</sub> | 12.3        |

## MASS

|              |           |
|--------------|-----------|
| Mass bearing | 0.0076 kg |
|--------------|-----------|

## More information

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

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