



2209 E-2RS1TN9

Popular item

Self-aligning ball bearings

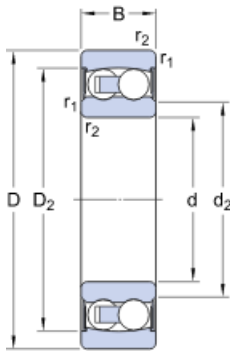
Bearing data

[Tolerances](#),
Normal, JS7,
[Radial internal clearance](#),
table

Bearing interfaceS

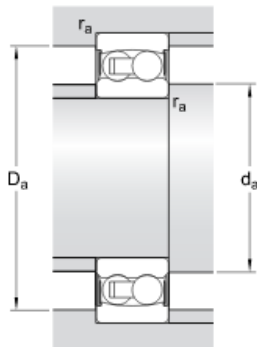
[Seat tolerances for standard conditions](#),
[Tolerances and resultant fits table](#)

Technical specification



DIMENSIONS

| | |
|------------------|-------------|
| d | 45 mm |
| D | 85 mm |
| B | 23 mm |
| d ₂ | ≈ 52.9 mm |
| D ₂ | ≈ 75.25 mm |
| r _{1,2} | min. 1.1 mm |



ABUTMENT DIMENSIONS

| | |
|----------------|-------------|
| d _a | min. 52 mm |
| d _a | max. 53 mm |
| D _a | max. 78 mm |
| r _a | max. 1.1 mm |

CALCULATION DATA

| | | |
|----------------------------------|----------------|------------|
| Basic dynamic load rating | C | 22.9 kN |
| Basic static load rating | C ₀ | 7.8 kN |
| Fatigue load limit | P _u | 0.4 kN |
| Limiting speed | | 5300 r/min |
| Permissible angular misalignment | α | 1.5 ° |
| Calculation factor | k _r | 0.045 |
| Calculation factor | e | 0.21 |
| Calculation factor | Y ₀ | 3.2 |
| Calculation factor | Y ₁ | 3 |
| Calculation factor | Y ₂ | 4.6 |

MASS

| | | |
|--------------|--|---------|
| Mass bearing | | 0.53 kg |
|--------------|--|---------|

More information

| | | |
|---|---|--|
| <p>Product details</p> <hr/> <p>Designs and variants</p> <hr/> <p>Bearing data</p> <hr/> <p>Loads</p> <hr/> <p>Temperature limits</p> <hr/> <p>Permissible speed</p> <hr/> <p>Design considerations</p> <hr/> <p>Mounting</p> <hr/> <p>Designation system</p> <hr/> | <p>Engineering information</p> <hr/> <p>Principles of rolling bearing selection</p> <hr/> <p>General bearing knowledge</p> <hr/> <p>Bearing selection process</p> <hr/> <p>Bearing interfaces</p> <hr/> <p>Seat tolerances for standard conditions</p> <hr/> <p>Selecting internal clearance</p> <hr/> <p>Lubrication</p> <hr/> <p>Sealing, mounting and dismantling</p> <hr/> <p>Bearing failure and how to prevent it</p> <hr/> | <p>Tools</p> <hr/> <p>Bearing Select</p> <hr/> <p>SimPro Quick</p> <hr/> <p>Engineering Calculator</p> <hr/> <p>LubeSelect for SKF greases</p> <hr/> <p>Heater selection tool</p> <hr/> <p>Drive-up Method Program</p> <hr/> <p>Oil Injection Method Program</p> <hr/> <p>Tool and Accessory Selector for sleeves and shafts</p> <hr/> <p>Housing Select</p> <hr/> <p>Rolling bearings mounting and dismantling instructions</p> <hr/> |
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