



1311 EKTN9

Popular item

Self-aligning ball bearings

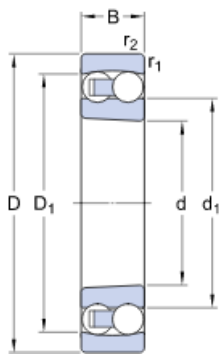
Bearing data

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

Bearing interfaceS

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

Technical specification

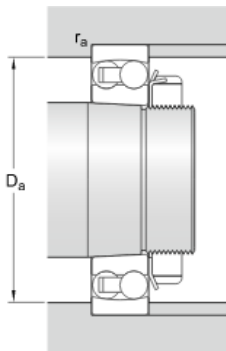


DIMENSIONS

| | |
|--------------------------|------------|
| d | 55 mm |
| D | 120 mm |
| B | 29 mm |
| d ₁ | ≈ 77.9 mm |
| D ₁ | ≈ 101.4 mm |
| r _{1,2} | min. 2 mm |
| Tapered bore, taper 1:12 | |

ABUTMENT DIMENSIONS

| | |
|----------------|-------------|
| D _a | max. 109 mm |
| r _a | max. 2 mm |



CALCULATION DATA

| | | |
|----------------------------------|----------------|-------------|
| Basic dynamic load rating | C | 50.7 kN |
| Basic static load rating | C ₀ | 18 kN |
| Fatigue load limit | P _u | 0.92 kN |
| Reference speed | | 11000 r/min |
| Limiting speed | | 7500 r/min |
| Permissible angular misalignment | α | 3 ° |
| Calculation factor | k _r | 0.04 |
| Calculation factor | e | 0.23 |
| Calculation factor | Y ₀ | 2.8 |
| Calculation factor | Y ₁ | 2.7 |
| Calculation factor | Y ₂ | 4.2 |

MASS

| | | |
|--------------|--|--------|
| Mass bearing | | 1.6 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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