

2307 EKM

Self-aligning ball bearings

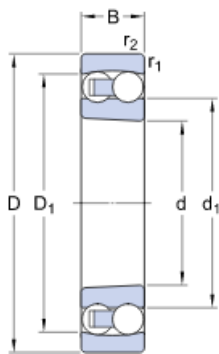
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits
table

Technical specification

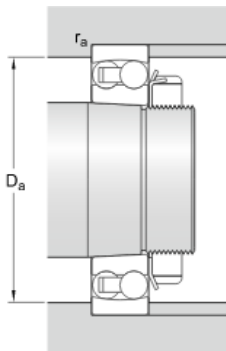


DIMENSIONS

| | |
|--------------------------|-------------|
| d | 35 mm |
| D | 80 mm |
| B | 31 mm |
| d ₁ | ≈ 46.7 mm |
| D ₁ | ≈ 67 mm |
| r _{1,2} | min. 1.5 mm |
| Tapered bore, taper 1:12 | |

ABUTMENT DIMENSIONS

| | |
|----------------|-------------|
| D _a | max. 71 mm |
| r _a | max. 1.5 mm |



CALCULATION DATA

| | | |
|----------------------------------|----------------|-------------|
| Basic dynamic load rating | C | 39.7 kN |
| Basic static load rating | C ₀ | 11.2 kN |
| Fatigue load limit | P _u | 0.59 kN |
| Reference speed | | 16000 r/min |
| Limiting speed | | 12000 r/min |
| Permissible angular misalignment | α | 3 ° |
| Calculation factor | k _r | 0.05 |
| Calculation factor | e | 0.46 |
| Calculation factor | Y ₀ | 1.4 |
| Calculation factor | Y ₁ | 1.35 |
| Calculation factor | Y ₂ | 2.1 |

MASS

| | |
|--------------|---------|
| Mass bearing | 0.75 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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