



Image may differ from product. See technical specification for details.

24068 CC/W33

Spherical roller bearing with relubrication features

Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.

- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

Overview

Dimensions

| | |
|------------------|--------|
| Bore diameter | 340 mm |
| Outside diameter | 520 mm |
| Width | 180 mm |

Performance

| | |
|---------------------------|--------------|
| Basic dynamic load rating | 3 621 kN |
| Basic static load rating | 6 200 kN |
| Reference speed | 750 r/min |
| Limiting speed | 1 100 r/min |
| SKF performance class | SKF Explorer |

Properties

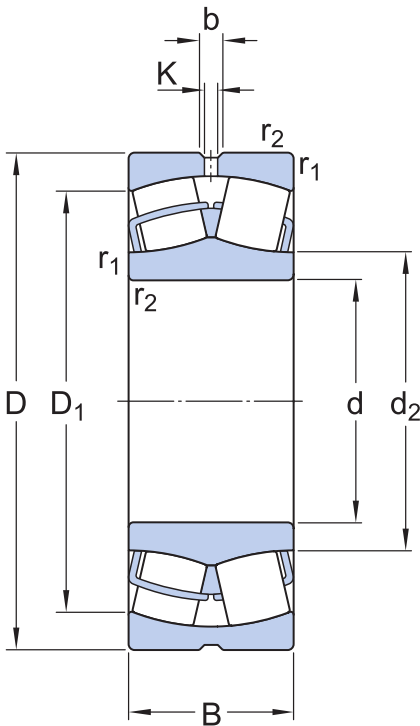
| | |
|--------------------------------------|-------------|
| Number of rows | 2 |
| Locating feature, bearing outer ring | Without |
| Bore type | Cylindrical |
| Cage | Sheet metal |
| Radial internal clearance | CN |
| Tolerance class | Normal |
| Tolerance class for dimensions | Normal |
| Tolerance class for run-out | Normal |
| Sealing | Without |
| Lubricant | None |
| Relubrication feature | With |
| Candidate for remanufacturing | Yes |

Logistics

| | |
|--------------------|-------------|
| Product net weight | 137 kg |
| eClass code | 23-05-09-11 |
| UNSPSC code | 31171510 |

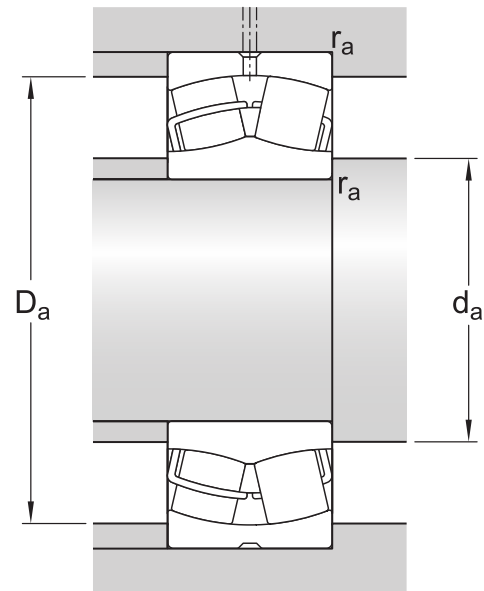
Technical specification

| | |
|-----------|-------------|
| Bore type | Cylindrical |
|-----------|-------------|



Dimensions

| | | |
|------------------|-----------|--|
| d | 340 mm | Bore diameter |
| D | 520 mm | Outside diameter |
| B | 180 mm | Width |
| d ₂ | ≈ 377 mm | Shoulder diameter of inner ring |
| D ₁ | ≈ 453 mm | Shoulder/recess diameter of outer ring |
| b | 16.7 mm | Width of lubrication groove |
| K | 9 mm | Diameter of lubrication hole |
| r _{1,2} | min. 5 mm | Chamfer dimension |



Abutment dimensions

| | | |
|-------|-------------|------------------------------|
| d_a | min. 358 mm | Diameter of shaft abutment |
| D_a | max. 502 mm | Diameter of housing abutment |
| r_a | max. 4 mm | Radius of fillet |




Calculation data

| | | |
|---------------------------|-------|--------------|
| SKF performance class | | SKF Explorer |
| Basic dynamic load rating | C | 3 621 kN |
| Basic static load rating | C_0 | 6 200 kN |
| Fatigue load limit | P_u | 475 kN |
| Reference speed | | 750 r/min |
| Limiting speed | | 1 100 r/min |
| Limiting value | e | 0.33 |
| Calculation factor | Y_1 | 2 |
| Calculation factor | Y_2 | 3 |
| Calculation factor | Y_0 | 2 |

Tolerance class

| | |
|------------------------|--------|
| Dimensional tolerances | Normal |
| Radial run-out | Normal |

More Information

| | | |
|--|---|--|
| <div> Product details</div> <div><div>Designs and variants</div><div>General bearing specifications</div><div>Loads</div><div>Temperature limits</div><div>Permissible speed</div><div>Design considerations</div><div>Mounting</div><div>Designation system</div></div> | <div> Engineering information</div> <div><div>Principles of rolling bearing selection</div><div>General bearing knowledge</div><div>Bearing selection process</div><div>Bearing failure and how to prevent it</div></div> | <div> Tools</div> <div><div>SimPro Quick</div><div>SKF Product select - Select and evaluate bearing</div><div>SKF Product select - Combine housing with bearing</div><div>LubeSelect for SKF greases</div><div>Drive-up Method Program</div><div>Heater selection tool</div><div>Oil Injection Method Program</div><div>Tool and Accessory Selector for sleeves and shafts</div></div> |
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