



23240 CC/W33 Spherical roller bearing with relubrication features

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 | 200 mm |
| Outside diameter | 360 mm |
| Width | 128 mm |

Performance

| | |
|---------------------------|--------------|
| Basic dynamic load rating | 1 947 kN |
| Basic static load rating | 2 700 kN |
| Reference speed | 1 200 r/min |
| Limiting speed | 1 700 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 | P5 |
| Sealing | Without |
| Lubricant | None |
| Relubrication feature | With |
| Candidate for remanufacturing | Yes |

Technical Specification

| | |
|-----------------------|--------------|
| SKF performance class | SKF Explorer |
| Bore type | Cylindrical |

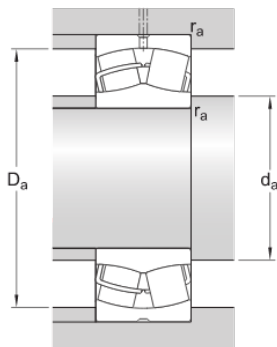


Dimensions

| | | |
|-----------|------------------|--|
| d | 200 mm | Bore diameter |
| D | 360 mm | Outside diameter |
| B | 128 mm | Width |
| d_2 | ≈ 235 mm | Shoulder diameter of inner ring |
| D_1 | ≈ 304 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. 4 mm | Chamfer dimension |

Abutment dimensions

| | | |
|-------|-------------|------------------------------|
| d_a | min. 217 mm | Diameter of shaft abutment |
| D_a | max. 343 mm | Diameter of housing abutment |
| r_a | max. 3 mm | Radius of fillet |



Calculation data

| | | |
|---------------------------|-------|----------|
| Basic dynamic load rating | C | 1 947 kN |
| Basic static load rating | C_0 | 2 700 kN |

| | | |
|--------------------|-------|-------------|
| Fatigue load limit | P_u | 228 kN |
| Reference speed | | 1 200 r/min |
| Limiting speed | | 1 700 r/min |
| Limiting value | e | 0.35 |
| Calculation factor | Y_1 | 1.9 |
| Calculation factor | Y_2 | 2.9 |
| Calculation factor | Y_0 | 1.8 |

Mass

| | | |
|------|--|---------|
| Mass | | 56.5 kg |
|------|--|---------|

Tolerance class

| | | |
|------------------------|--|--------|
| Dimensional tolerances | | Normal |
| Radial run-out | | P5 |

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