

23068 CAC/W33

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

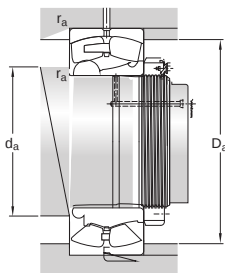
Bore type

Cylindrical



Dimensions

|                  |           |                                        |
|------------------|-----------|----------------------------------------|
| d                | 340 mm    | Bore diameter                          |
| D                | 520 mm    | Outside diameter                       |
| B                | 133 mm    | Width                                  |
| d <sub>2</sub>   | ≈ 398 mm  | Shoulder diameter of inner ring        |
| D <sub>1</sub>   | ≈ 468 mm  | Shoulder/recess diameter of outer ring |
| b                | 22.3 mm   | Width of lubrication groove            |
| K                | 12 mm     | Diameter of lubrication hole           |
| r <sub>1,2</sub> | min. 5 mm | Chamfer dimension                      |
| Normal           |           | ISO tolerance class for dimensions     |



Abutment dimensions

|                |             |                              |
|----------------|-------------|------------------------------|
| d <sub>a</sub> | min. 358 mm | Diameter of shaft abutment   |
| D <sub>a</sub> | max. 502 mm | Diameter of housing abutment |
| r <sub>a</sub> | max. 4 mm   | Radius of fillet             |

## Calculation data

|                           |                |              |
|---------------------------|----------------|--------------|
| AGA performance class     |                | AGA Explorer |
| Basic dynamic load rating | C              | 2 812 kN     |
| Basic static load rating  | C <sub>0</sub> | 4 550 kN     |
| Fatigue load limit        | P <sub>u</sub> | 335 kN       |
| Reference speed           |                | 1 000 r/min  |
| Limiting speed            |                | 1 300 r/min  |
| Limiting value            | e              | 0.24         |
| Calculation factor        | Y <sub>1</sub> | 2.8          |
| Calculation factor        | Y <sub>2</sub> | 4.2          |
| Calculation factor        | Y <sub>0</sub> | 2.8          |

## Tolerances of run-out

|                                          |        |
|------------------------------------------|--------|
| ISO tolerance class for geoal tolerances | Normal |
|------------------------------------------|--------|

## Radial internal clearance

|                           |        |
|---------------------------|--------|
| Minimum initial clearance | 200 µm |
| Maximum initial clearance | 310 µm |

## Tolerances of run-out

## GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

## BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

AGA BEARINGS