

23992 CA/W33

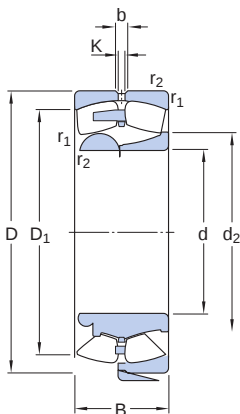


Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system,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

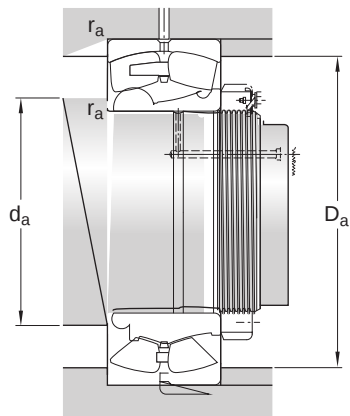
- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

Bore type

Cylindrical



| Dimensions        |                 |                                                |
|-------------------|-----------------|------------------------------------------------|
| d                 | 460 mm          | Bore diameter                                  |
| t <sub>Δdmp</sub> | -0.045 – 0.0 mm | Deviation limits of mid-range bore diameter    |
| D                 | 620 mm          | Outside diameter                               |
| t <sub>ΔDmp</sub> | -0.05 – 0.0 mm  | Deviation limits of mid-range outside diameter |
| B                 | 118 mm          | Width                                          |
| t <sub>ΔBs</sub>  | -0.45 – 0.0 mm  | Deviation limits of ring width                 |
| d <sub>2</sub>    | ≈ 516 mm        | Shoulder diameter of inner ring                |
| D <sub>1</sub>    | ≈ 574 mm        | Shoulder/recess diameter of outer ring         |
| b                 | 16.7 mm         | Width of lubrication groove                    |
| K                 | 9 mm            | Diameter of lubrication hole                   |
| r <sub>1,2</sub>  | min. 4 mm       | Chamfer dimension                              |
| Normal            |                 | ISO tolerance class for dimensions             |



Abutment dimensions

|       |             |                              |
|-------|-------------|------------------------------|
| $d_a$ | min. 475 mm | Diameter of shaft abutment   |
| $D_a$ | max. 605 mm | Diameter of housing abutment |
| $r_a$ | max. 3 mm   | Radius of fillet             |

Calculation data

|                           |       |              |
|---------------------------|-------|--------------|
| AGA performance class     |       | AGA Explorer |
| Basic dynamic load rating | C     | 2 558 kN     |
| Basic static load rating  | $C_0$ | 5 000 kN     |
| Fatigue load limit        | $P_u$ | 360 kN       |
| Reference speed           |       | 600 r/min    |
| Limiting speed            |       | 1 000 r/min  |
| Limiting value            | e     | 0.16         |
| Calculation factor        | $Y_1$ | 4.2          |
| Calculation factor        | $Y_2$ | 6.3          |
| Calculation factor        | $Y_0$ | 4            |

Tolerances of run-out

|                                                            |           |             |
|------------------------------------------------------------|-----------|-------------|
| Range of section height at inner ring of assembled bearing | $t_{Kia}$ | 65 $\mu$ m  |
| Range of section height at outer ring of assembled bearing | $t_{Kea}$ | 100 $\mu$ m |
| ISO tolerance class for geoal tolerances                   |           | Normal      |

Radial internal clearance

|                           |        |
|---------------------------|--------|
| Minimum initial clearance | 260 µm |
| Maximum initial clearance | 410 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