

53410

Single direction thrust ball bearings, with sphered housing washer, can accommodate axial loads in one direction. They must not be subjected to any radial load. Many of the components are interchangeable. The shaft washers have a ground bore that enables an interference fit. The sphered housing washers can accommodate initial misalignment when configured correctly with a sphered seat washer or a machine component with a sphered surface.



- Separable design facilitates mounting/dismounting and maintenance inspections
- Interchangeable components
- Ground bore of shaft washers enables interference fit
- Sphered housing washers can accommodate initial misalignment



| Dimensions       |             |                                      |
|------------------|-------------|--------------------------------------|
| d                | 50 mm       | Bore diameter                        |
| D                | 110 mm      | Outside diameter                     |
| H                | 45.6 mm     | Height                               |
| H <sub>1</sub>   | 50 mm       | Height bearing including seat washer |
| d <sub>1</sub>   | ≈ 110 mm    | Outside diameter shaft washer        |
| D <sub>1</sub>   | ≈ 52 mm     | Inner diameter housing washer        |
| D <sub>2</sub>   | 80 mm       | Inner diameter seat washer           |
| D <sub>3</sub>   | 115 mm      | Outside diameter seat washer         |
| C                | 14 mm       | Height seat washer                   |
| R                | 90 mm       | Radius sphered housing washer        |
| s                | 35 mm       | Centre height housing washer sphere  |
| r <sub>1,2</sub> | min. 1.5 mm | Chamfer dimension washer             |



Abutment dimensions

|       |             |                           |
|-------|-------------|---------------------------|
| $d_a$ | min. 86 mm  | Abutment diameter shaft   |
| $D_a$ | max. 80 mm  | Abutment diameter housing |
| $r_a$ | max. 1.5 mm | Fillet radius             |

Calculation data

|                           |       |             |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C     | 159 kN      |
| Basic static load rating  | $C_0$ | 340 kN      |
| Fatigue load limit        | $P_u$ | 12.5 kN     |
| Reference speed           |       | 1 900 r/min |
| Limiting speed            |       | 2 600 r/min |
| Minimum load factor       | A     | 0.6         |

Associated products

|             |       |
|-------------|-------|
| Seat washer | U 410 |
|-------------|-------|

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table 1

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit